UDC: 681.327.66:621.317.757 OFENGENDEN, R. G., RATMANSKIY, R. YU., ANDREYEV, O. M., BEREZIM, F. N., DYSZEKO, B. N., MATSKEVICH, G. G., ODINETS, G. S., SHALEYKO, M. A. Moscow, Otkrytiya, Izobreteniya, Promyshlennyve Obraztsy, Tovarnyve Znaki, No 11. 1970, Author's Certificate No 265951, filed 25 Jan 68, p 41 Abstract: This author's certificate introduces: 1. A pulse analyzer with memory device of the periodic type, based for instance on a magnetic drun. The analyzer contains an analog-to-code converter, memory unit record and playback amplifiers, a data output module, and a control unit. As a distinguishing feature of the patent, the analyzer is simplified by incorporation of a device which records tags for the beginning and end of isolated segments on an auxiliary field of the periodic memory, a unit which codes these tags with its output connected to the recording amplifier, a tag playback amplifier, a device for decoding the reproduced tags, and a unit which passes pulses located in the isolated segments and which is controlled by the decoding device. 2. A modification of this pulse analyzer which has the distinguishing feature of automatic generation of control signals when predetermined number values are accumulated in selected channels. The analyzer contains a device for recording the indicated numbers on an auxiliary field of the periodic memory in phase with the arrangement of the data 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

CANAMITE SENDIA RESENTANTE DE LA PROPERTICA DEL PROPERTICA DEL PROPERTICA DEL PROPERTICA DE LA PROPERTICA DEL PROPERTICA DEL

OFENGENDEN, R. G., et al, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy,

Tovarnyye Znaki, No 11, 1970

accumulated in the corresponding channels. Also incorporated in this pulse analyzer is a comparison unit with its inputs connected to the circuit for playback of signals recorded on this field and to the playback amplifier for the information field, while its output is connected to the circuit which shapes tho control signals when the accumulated information is equal to or greater than the predetermined numbers. 3. A modification of this analyzer which has the distinguishing feature of numerical integration of the data accumulated in the isolated segments of the band being measured. The output of the pulse pass unit is connected to the input of the comparison unit. 4. A modification of this analyzer which is distinguished by its ability to record additional information in the memory device during data accumulation. The unit contains a commutator whose control input is connected to the track of a synchropulse field on which a signal is recorded which divides the zones where the measured and auxiliary information are recorded on the memory unit of the analyzer.

2/2

CIA-RDP86-00513R002202230010-9" APPROVED FOR RELEASE: 09/17/2001

STEET BURNET STEET BURNET BURNET BURNET BURNET

UNCLASSIFIED PROCESSING DATE--090CT70 TITLE-HYDROGEN BONDS AND INFRARED SPECTRA OF H COMPLEXES -U-AUTHOR-(03)-ODINOKOV. S.E., DZIZENKO, A.K., MASHKOVSKIY, A.A. COUNTRY OF INFO-USSR SOURCE-SPECTROSC. LETT. 1970, 3(1), 1-6 DATE PUBLISHED----70 SUBJECT AREAS--CHEMISTRY TOPIC TAGS--HYDROGEN BONDING, COMPLEX COMPOUND, BENZENE DERIVATIVE, HYDROXYL RADICAL, PYRIDINE COMPLEX, DIMERIZATION, IR SPECTRUM

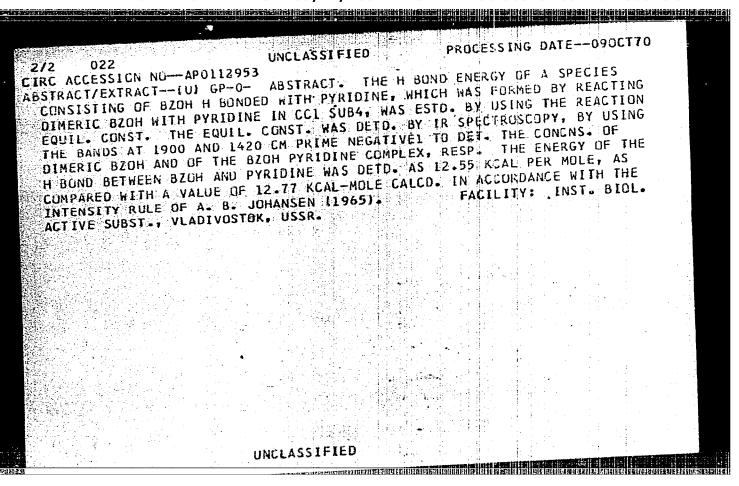
CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME-1992/1989

STEP NU--US/0000/70/003/001/0001/0006

THE STREET STREE

CIRC ACCESSION NO--APOL12953 UNCLASSIFIED



USSR

UDC 621.376.54

ODINOKOV, V. F., ROTSHTEYN, L. I.

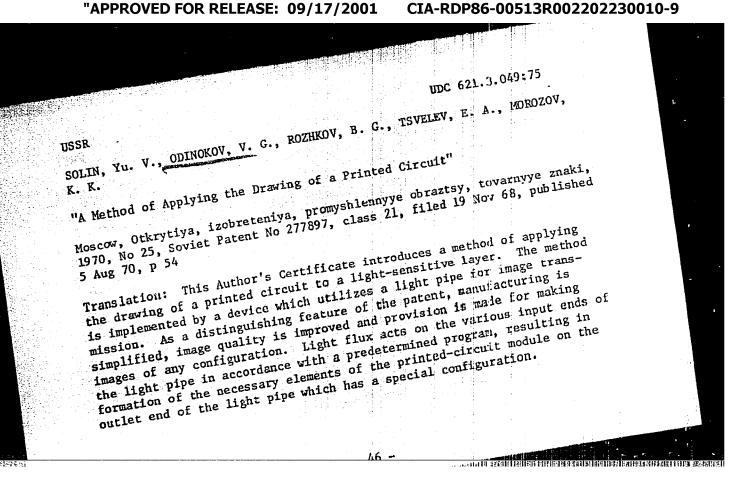
"Pulse Duration Modulated Signal Demodulator"

Moscow, Izmeritel'naya Tekhnika, No 10, 1971, p 66

Abstract: A study was made of a scheme for a converter of pulse duration modulated signals to an analog signal which insures high linearity of the conversion characteristic. In addition, in contrast to the known converters, it has appreciably less phase delay (one interpolation interval instead of 5). The demodulator was used in a low-series device as a component of the data transmission line. Under field conditions, the conversion nonlinearity did not exceed 0.1% in the temperature range from -40 to +50° C, the steepness of the modulation characteristic did not change by more than 0.5% for $\tau > 10$ microseconds and an interpolation interval of < 3.10⁻³ seconds. In the device, the primary conversion of the time interval τ into the voltage amplitude U is carried out by the principle of linear charge of the capacitance by a direct current from a triode generator. The commutation processes of the switching triodes were insured for $\tau_{\rm pl} = \tau_{\rm pl} = \tau_{\rm pl}$ = 10 microseconds, $\tau_{\rm max} = \tau_{\rm pl}$ volts.

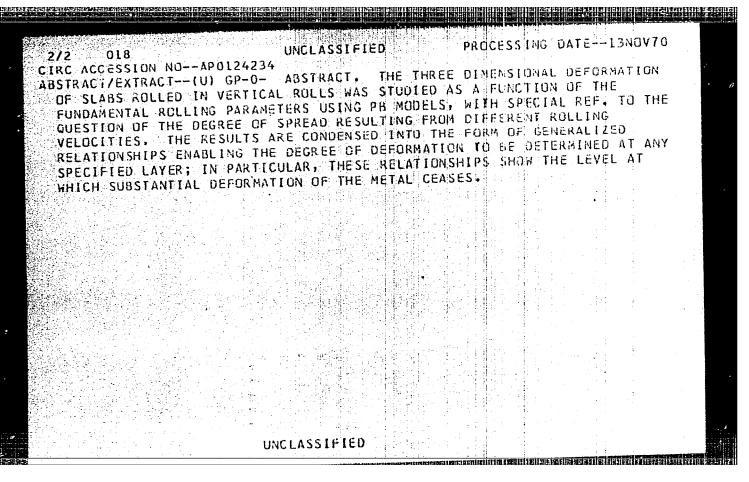
1/1

- 34 -



PROCESSING DATE--13NOV70 UNCLASSIFIED TITLE--DEFORMATION IN THE ROLLING OF SLABS IN VERTICAL ROLLS -U-AUTHOR-103)-ODINOKOV, YU.I., SHKLOVSKY, V.YA., POTAPKIN, V.F. COUNTRY OF INFO--USSR SOURCE-- LZVEST. V.U.Z., CHERNAYA MET., 1970, (2), 87-90 DATE PUBLISHED----70 SUBJECT AREAS--MATERIALS, MECH., IND., CIVIL AND MARINE ENGR TOPIC TAGS -- METAL ROLLING, METAL DEFORMATION, LEAD CONTRUL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP ND--UR/0148/70/000/002/0087/0090 PROXY REEL/FRAME--2000/0539 CIRC ACCESSION NU--APO124234 UNGLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"



ux 669.1:669.295:539.374

USSR

ODINOKOVA, L. P., Kramatorsk Industrial Institute

"Effect of Iron on the Phase Composition and Mechanism of Plastic Deformation of Titanium"

Sverdlovsk, Fizika Metallov i Metallovedeniye, Vol 35, No 5, 1973, pp 1022-1026

Abstract: Annealed Ti-Fe alloys containing from 0.1 to 9.0% Fe had identical phase composition. All of them contained X and B solid solutions and TiFe compound. The quantity of the strengthening TiFe and metastable B phases increased proportionally to increasing concentration of iron. In alloys containing 0.1 and 0.5% Fe, the grains of the X solid solution were of an elongated shape and precipitations of the second phase were visible along the grain boundaries. Alloys with 0.5, 1.25, 6.0, and 9.0% Fe contained all three phases:

O(1) B, and TiFe. Metastable Ti-Fe alloys with 6.0 and 9.0% Fe contained only B and W phases in the first case, and B in the second case. Mechanical properties of Ti-Fe alloys depended on the phase composition, ratios netween individual structural and phase components, and on properties of individual individual structural and phase components, and on properties of individual reduction, and impact toughness decreased, but the ultimate strength increased by a rate of 0.7 kg/km² for every 0.1% of Fe. A decrease in plasticity,

- 34 -

USSR

ODINOKOVA, L. P., Fizika Metallov i Metallovedeniye, Vol 35, No 5, 1973, pp 1022-1026

reduction, and impact toughness is attributed to precipitation of the second phase along the grain boundaries. A further increase in the concentration of iron to 1.25% improved the strength of alloy by 5%, while plasticity, reduction, and impact toughness remained at a high level (25, 53, and 14.6, respectively). Alloys containing high concentration of β phase were characterized by a high resistance to plastic deformation along the grain boundaries and within the grain bodies. Alloys with 6 and 9% Fe consisted of more than 5% eutectoid structure and their plastic properties were low.

2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

шс 669.295.5

USSR

ODINOKOVA, L. P., Kramatorsk Industrial Institute, Chair of the Science of Metals and Thermal Treatment of Metals

"The Effect of Alpha and Beta Stabilizers on the Mechanism of Plastic Deformation of Titanium"

Ordzhonikidze, Izvestiya Vysshikh Uchebnykh Zavedeniy, Tsvetnaya Metallurgiya, No 6, 1972, pp 132-135

Abstract: A study was made of the mechanism of plastic deformation of twocomponent titanium-base alloys containing 0.2 and 2% Al, 0.1 and 0.3% 0, and 0.1-1.25% Fe. Metallographic and structural x-ray investigations revealed that Ti-Al and Ti-O2 alloys after annealing were in a one-phase alpha-state, but Ti-Fe alloys were in a three-phase state (a-solid solution, Ti-Fe, and residual beta-solid solution). Hechanical properties of the alloys, their microreliefs developing from static and dynamic loads, and the effect of Al. O, and Fe on the mechanism of plastic deformation are discussed. The introduction of up to 0.5% Fe decreased the relative elongation, lateral necking, and impact ductility; the ultimate strength increased 0.7 kg/mm2 with the introduction of 0.1% Fe. Specimens with 1.25% Fe deformed under static loads by shifting on grain boundaries, sliding, and twinning. Intensive twinning is shown to develop in alpha-solid solutions under dynamic loads. Twinning secures the retention of inpact ductility in alloying Ti with 0.5-1.25% Fe. 3 figures, 1 table, 3 bibliographic references. - 50 -1/1

USSR

UDC 669.295:539.292

ODINOKOVA, L. P., and BRUSILOVSKIY, B. A., Kramatorsk Industrial Institute

"The Beta-Phase Decay on Continuous Cooling in Titanium-Iron Alloys"

Sverdlovsk, Fizika Metallov i Metallovedeniye, Vol 31, No 4, Apr 71, pp 713-718

Abstract: The beta-phase decay in Ti-Fe alloys, depending on the Fe-content (0.1-9.0%) and the cooling rate, was investigated by metallographic and roentgenostructural analyses and the variation of hardness. Roentgenograms were taken from specimens 0.8-1.0 mm in diameter, cut from heat-treated bars. Investigation results show the effect of heat treatment and the hardness HV, the phase composition, and the lattice parameter of beta-phase depending on Fe content. A mechanism of w-phase development by direct beta-phase decay during continuous cooling is suggested and discussed. The development of the w-phase in alloys with a near critical Fe-content (6% Fe) is indicated. Generalized investigation results, presented in diagrams of the anisometric beta-phase decay, show that in the alloy with 1% Fe the temperature interval of phase transformations shifts into the region of lower temperatures by increasing cooling rate. In the alloy with 9% Fe, only the diffusion 1/2

USSR

ODINGKOVA, L. P., and BRUSILOVSKIY, B. A., Fizika Metallov i Metallovedeniye, Vol 31, No 4, Apr 71, pp 713-718

beta-phase decay region with development of TiFe and an alpha-phase by annealing is to be observed. The beta-phase supercools up to room temperature by normalization and hardening. Two figures, two tables, five bibliographic references.

2/2

- 61 -

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

1/2 022 UNCLASSIFIED PROCESSING DATE--13NOV70
TITLE--ON THE HISTOMORPHOLOGICAL CHARACTERISTICS OF SOME INCRETORY GLANDS
OF RATS IN FLUORINE INTUXICATION -UAUTHOR-(02)-ZHAVORONKOV, A.A., ODINOKOVA, V.A.

COUNTRY OF INFO--USSR

SOURCE-BYULLETEN' EKSPERIMENTAL'NOY BIOLOGII I MEDITSINY, 1970, VOL 49, NR 6, PP 107-110 DATE PUBLISHED----70

SUBJECT AREAS -- BIGLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--SDDIUM COMPOUND, FLUORIDE, FLUOROSIS, THYROID GLAND, PARATHYROID GLAND

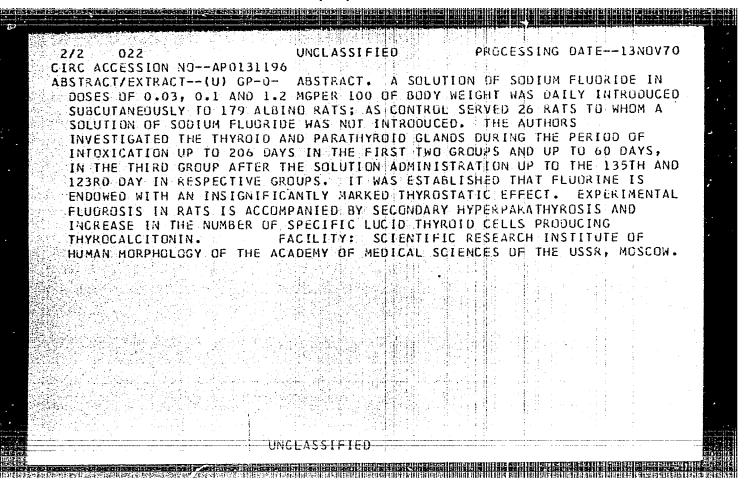
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3004/0573

STEP ND--UR/0219/70/049/006/0107/0110

CIRC ACCESSION NO--APO131196

UNCLASSIELED



1/2 028 UNCLASSIFIED PROCESSING DATE--L8SEP70
TITLE--THE INFLUENCE OF PYROGENAL ON THE LIVER OF RATS SUBJECTED TO THE
EFFECT OF CCL SUB4 -UAUTHOR-(04)-AVRAMENKO, M.M., QDINOKOVA, V.A., DROZDOVA, G.A., GLADYSHEV,
B.N.
COUNTRY OF INFO--USSR

SOURCE--BYULLETIN' EKSPERIMENTAL'NOY BIOLOGII I MEDITSINY, 1970, VOL 59,
NR 3, PP 43-46
DATE PUBLISHED----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--ORGAN REGENERATION, LIVER, RAT, TOXICOLOGY, CARRON TETRACHLORIDE, CYTOPLASM, GLYCOGEN, ALBUMIN, CHOLINESTERASE, ENZYME ACTIVITY, BETA GLOBULIN, PYROGEN

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1982/0851

STEP NO--UR/0219/70/069/003/0043/0046

CIRC ACCESSION NO--APO052285

UNCLASSIFIED:

PROCESSING DATE--18SEP70 UNCLASSIFIED 2/2 CIRC ACCESSION NO--AP0052285 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE INFLUENCE OF PYROGENAL ON PROCESSES OF REGENERATION IN THE LIVER IN RATS WITH EXPERIMENTAL CCL SUB4 HEPATOSIS WAS STUDIED. AS THE RESULT OF PYROGENAL TREATMENT IN THE LIVER TISSUE OF ANIMALS THERE APPEARED SIGNS OF REGENERATION; THE NUMBER OF DIVIDING CELLS INCREASED, THERE APPEARED LARGE HEPATOCYTES WITH A SIGNIFICANT ACCUMENTION OF GLYCOGEN IN THE CYTOPLASM. THE EMPLOYMENT OF PYROGENAL WAS CONDUCTIVE TO NORMALIZATION OF THE PICTURE OF BLOOD SERUM PROTEINS, AN INCREASED CONTENT OF ALBUMINS AND A REDUCED CONTENT OF BETA GLOBULINS DOWN TO NORMAL VALUES. THERE WAS FOUND NO STATISTICALLY SIGNIFICANT CHANGES IN THE ACTIVITY OF CHOLINESTERASE AND HISTIDASE IN THE-BLOOD SERUM AND IN THE HOMOGENATE OF HEPATIC TISSUE OF RATS RECEIVING PYROGENAL, IN COMPARISON WITH ANIMALS NOT GIVEN THE LATTER. DURING PYROGENAL TREATMENT IN THE PROCESS OF CCL SUB4 INTOXICATION THERE WAS NOTED A MORE RAPID NORMALIZATION IN THE CONTENT OF ALBUMINS AND BETA GLOBULINS OF THE BLOOD SERUM DURING RECOVERY.

USSR

ODINTSOV. A. A., Kiev Polytechnical Institute

"The Geometrical Errors of a Magnetic Compass"

Leningrad, IVUZ Priborostroyenie, No 11, 1970, pp 86-89

Abstract: The article deals with the methodical errors brought about by inclinations of the compass card with respect to the about by inclinations of the deviations of the course line plane of the horizon, and by the deviations of the course line from the vertical due to inclinations of the compass housing.

1. figure, 3 bibliographic entries.

USSR

UDC: 531.01

ODINTSOV. A. A., BUBLIK, G. F.

"On the Problem of Improving the Response of a Gyrocompass With Indirect Control"

Vestn. Kiyev. politekhn. in-ta. Ser. priborostr. (Kiev Polytechnical Institute Herald. Instrument Building Series), 1970, No 1, pp 3-8 (from RZh-Mekhanika), No 7, Jul 71, Abstract No 7A99)

Translation: The paper deals with a scheme of a gyrocompass with indirect control, the axle of the outer frame being held in a torsion suspension. The authors determine the conditions under which the readings of the gyrocompass are independent of the effect of transport accelerations. It is shown that the period of natural undamped oscillations of the gyrocompass can be made less than the Schuler period without violating this condition. Authors abstract.

1/1

173 -

USSR

UDC 531.01

PAVLOVSKIY, H. A., ODINTSOV, A. A.

"On the Nature of the Motion of an Integrating Gyroscope Under Regular Tossing of the Base"

Dokl. Yubileyn. nauch.-tekhn. konferentsii Fak. avtomat. sistem. Tomsk.

politekhn. in-t (Reports of the Jubilee Scientific-Technical Conference of the Faculty of Automatic Systems. Tomsk Polytekhnical Institute), Tomsk, 1970, pp 47-53 (from RZh-Mekhanika, No 9, Sep 71, Abstract No 9A92)

Translation: The behavior of an integrating gyroscope under signal-frequency two-axial tossing of the base is discussed. The nonlinear differential equation with periodic coefficients that is discussed is solved by the harmonic balance method. Only a particular solution is investigated (higher h rmonics are not taken into account). These results are compared with the data of other authors obtained using different methods of approximate integration of the equations of an integrating gyroscope. It is shown that under tossing of the base the difference in the output signals of two identical integrating gyroscopes with opposing rotors does not contain a constant component and is a periodic function of time. G. A. Slomyanskiy.

1/1

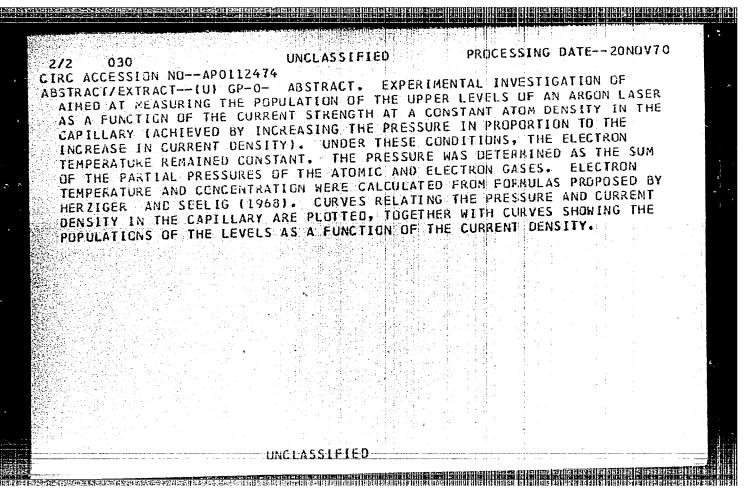
UNCLASSIFIED PROCESSING DATE-20NDV70 1/2 TITLE--ROLE OF MULTISTAGE EXCITATION OF OPERATING LEVELS IN AN ARGON LASER AUTHOR-(03)-LEBEDEVA, V.V., MASHTAKOV, D.M., ODINTSOV, A.I. CCUNTRY OF INFO-USSR SGURCE-OPTIKA I SPEKTROSKOPIIA, VOL. 28, FEB. 1970, P. 350-352 DATE PUBLISHED FEB70 SUBJECT AREAS -- PHYSICS TOPIC TAGS--ARGUN LASER, ELECTRON GAS, CURRENT DENSITY CENTROL MARKING-NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP NO--UR/0051/70/028/000/0350/0352

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

- UNCLASSIFIED

PROXY REEL/FRAME--1992/1480

GIRC ACCESSION NO-APOLIZATA



UNCLASSIFIED PROCESSING DATE--300CT70

TITLE--FINE STRUCTURE OF THE SUPERRADIATION SPECTRUM IN A PULSED NEON

AUTHOR-(04)-KOROLEV, F.A., ABROSIMOV, G.V., ODINTSUV, A.I., YAKUNIN, V.P.

COUNTRY OF INFO--USSR

SOURCE-OPTIKA I SPEKTROSKOPITA, VOL. 28, MAR. 1970, P. 540-542

DATE PUBLISHED----70

SUBJECT AREAS-PHYSICS

TOPIC TAGS--FINE STRUCTURE, NEON, LASER PULSE, GAS LASER, LASER RADIATION SPECTRUM, FABRY PEROT INTERFEROMETER, LINE SPLITTING, LASER PULSE LENGTH

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--1996/1508 STEP NO--UR/0051/70/028/000/0540/0542

CIRC ACCESSION NO--APOL18495

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

PROCESSING DATE--300CT70 UNCLASSIFIED 2/2 049 CIRC ACCESSION NO--AP0118495 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. STUDY OF THE SPECTRAL COMPOSITION OF THE SUPERRADIATION ON THREE LINES OF A PULSED NEON LASER WITH WAVELENGTHS OF 6143, 5944, AND 5401 A WITH THE AID OF A FABRY-PEROT INTERFEROMETER WITH A THICKNESS OF 10 AND 15 CM. THE SUPERRADIATION LINES ARE OBSERVED TO POSSESS A FINE STRUCTURE WHICH IN TYPICAL CASES CONTAINS FROM THREE TO SIX COMPONENTS WITH AN INTERVAL RANGING FROM 150 TO 400 HMZ BETWEEN NEIGHBORING COMPONENTS. THE WIDTH OF AN INDIVIDUAL COMPONENT RANGES FROM ABOUT 100 TO 200 MHZ, WHICH AGREES IN ORDER OF MAGNITUDE WITH THE SUPERRADIATION PULSE LENGTH (ABOUT 5 TO 8 NSEC). DEPENDENCE OF THE SPLITTING INTERVAL ON THE GEOMETRY OF THE DISCHARGE REGION, THE GAS PRESSURE, AND THE SIZE OF THE CHARGE CAPACITANCE IS FOUND. THE OBSERVED FINE STRUCTURE CANNOT BE ATTRIBUTED TO THE ISOTOPIC STRUCTUREOF NEON. SINCE THE NUMBER OF COMPONENTS AND THE DISTANCES BETWEEN THEN DO NOT CORRESPOND TO THE CHARACTERISTICS OF THE ISOTOPIC SHIFT IN NEON. IT IS SUGGESTED THAT THE COMPONENTS OF THE FINE STRUCTURE MAY BELONG TO SUPERRADIATIVE MODES OF THE PULSED LASER. UNCLASSIFIED

1/2 027 UNCLASSIFIED PROCESSING DATE--300CT70
TITLE--EXCITATION OF HIGHER MODES OF A FABRY-PEROT RESONATOR BY AN
EXTERNAL TEM SUB 00 WAVE -U-

AUTHOR-(03)-KOROLENKO, P.V., ODINTSOV, A.I., TARASOVA, S.N.

COUNTRY OF INFO--USSR

SOURCE--OPTIKA I SPEKTROSKOPITA, VOL. 28, MAR. 1970, P. 518-523

DATE PUBLISHED ---- MAR 70

SUBJECT AREAS--PHYSICS

TOPIC TAGS--RESONATOR, WAVE FRONT, EXCITED STATE, EXCITATION ENERGY, SPHERIC GEOMETRY, ELECTROMAGNETIC WAVE ABSORPTION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/1435

STEP NO--UR/0051/70/028/000/0518/0523

CIRC ACCESSION NO--APOLI8424

UNCLASS (FIED-

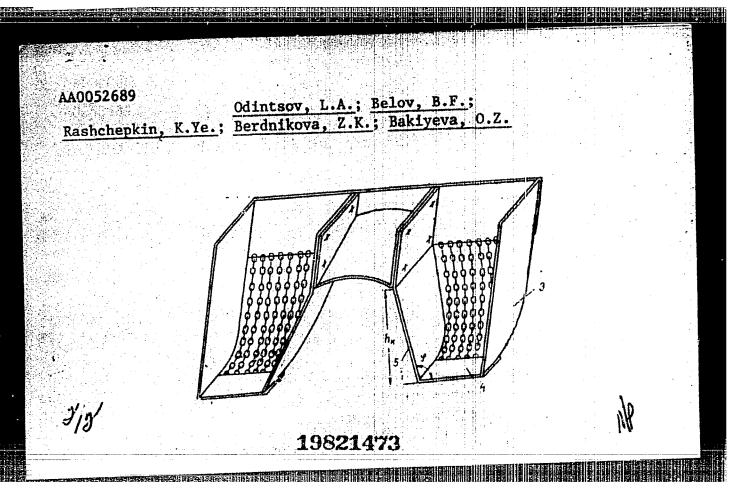
PROCESSING DATE--300CT70 UNCLASSIFIED 2/2 027 CIRC ACCESSION NO--APOL18424 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. EXPERIMENTAL MEASUREMENT OF THE CONVERSION COEFFICIENTS CHARACTERIZING THE EXCITATION OF HIGHER MODES OF A FABRY-PEROT RESONATOR BY AN EXTERNAL TEM SUB OO WAVE. IT IS SHOWN THAT IN THE PRESENCE OF A MISMATCH BETWEEN THE RADIUS OF CURVATURE OF THE WAVEFRONT AND THE BEAM DIAMETER IN A SPHERICAL FABRY-PEROT RESONATOR EXCITED BY AN EXTERNAL TEM SUB OO WAVE EXCITATION OF HIGHER TEM SUB PO MODES WITH SPHERICAL GEOMETRY IS OBSERVED. IF THE MISMATCH IS CAUSED BY A DISTURBANCE OF THE COAXIALITY WITH THE INCIDENT BEAM, HIGHER TEM SUB MO MODES WITH RECTANGULAR GEOMETRY ARE EXCITED. FOR EACH MODE THERE IS A SPECIFIC OPTIMAL DEGREE OF MISMATCH, AT WHICH ITS INTENSITY REACHES A MAXIMUM. THE OPTIMAL DEGREE OF MISMATCH INCREASES WITH AN INCREASE IN THE MODE INDEX. UNCLASSIFIED

AA0052689 ODIN 750 L. UR 0482

Soviet Inventions Illustrated, Section III Mechanical and General,
Derwent, 2-70

244207 TRENCH EXCAVATOR comprises rotor with
buckets. It Is distinguished by
providing the bucket terminal sections with
longitudinal walis 3,5. One of them 3 is made at
right angles to the bucket bottom 4, whereas the
lower part of the other is made at an angle. This
excludes the shock action from the walls of the
pipe opening device.

10.2.68. as 1217820/29-14, ODINTSOV, L.A. et al.
(8.10.69) Bul 17/14.5.69; Class 84d, Int. Cl.
E 02f.



UDC 621.374.4(088.8)

USSR

KURMAYEV, A. ZH., MIKHAYLOV, A. M., GEL'BSHTEYN, L. S., SLAVNIN, V. A., ODINTSOV, L. N., KOZLOV, A. I., KOROLEVA, R. A., STIEL'NIKOV, A. D.

"Pulse Repetition Rate Dividing Circuit"

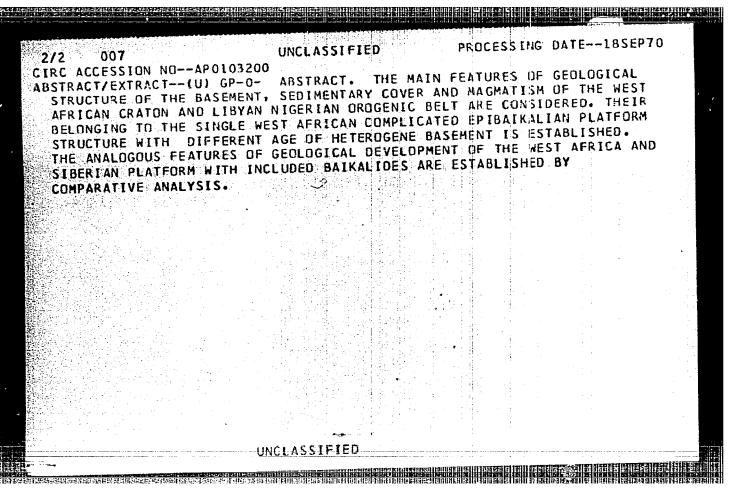
USSR Author's Certificate No 277845, Filed 9 Jan 69, Published 20 Oct 70 (from RZh-Radiotekhnika, No 4, Apr 71, Abstract No 4G247P)

Translation: A frequency dividing circuit is proposed, which contains a cycle signal source, a square-wave source, a switch in the cycle signal circuit, a frequency divider and a comparison circuit. In order to improve the noise resistance of the cycle pulse time selection in the presence of low frequency resistance of the cycle pulse time selection in the presence of low frequency noise, the device is also equipped with a pulse converter included between the divider and the comparison circuit. The converter output is connected to the control input of the switch in the cycle pulse circuit.

1/1

118 -

UNCLASSIFIED PROCESSING DATE--18SEP70 1/2 007 TITLE-GENERAL FEATURES OF THE GEOLOGICAL HISTORY OF THE HEST OF AFRICAN AND SIBERIAN PLATFORMS -U-AUTHOR-104)-VLADIMIROV, B.M., ODINTSOV, M.M., RASSKAZCHIKOV, A.N., TVEROOKHLEBOV, V.A. COUNTRY OF INFO--USSR SOURCE-GEOLOGIYA I GEOFIZIKA, 1970, NR 1 (121) PP 50-56 DATE PUBLISHED-----70 SUBJECT AREAS--EARTH SCIENCES AND OCEANOGRAPHY TOPIC TAGS--STRUCTURAL GEOLOGY, MAGMA, DROGENY CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP NO--UR/0210/70/000/001/0050/0056 PROXY REEL/FRAME--1986/1318 CIRC ACCESSION NO--APO103200 UNCLASSIFIED



USSR UDC: 621.374.5

ODINTSOV V. I., Moscow "Order of Lenin" Aviation Institute imeni Sergo Ordzhonikidze

"A Converter Which Changes Pulse Amplitude to a Time Interval"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 7, Mar 72, Author's Certificate No 329661, Division H, filed 1 Jul 70, published 9 Feb 72, p 222

Translation: This Author's Certificate introduces a converter which changes pulse amplitude to a time interval. The device contains a comparison circuit, a current-stabilizing device and a charging network made up of an amplifier, a diode and a storage capacitor. As a distinguishing feature of the patent, the converter is simplified and its speed is increased by connecting the common tiepoint between the storage capacitor, diode and current-stabilizer to the emitter of the input translator, while the output of the comparison circuit is connected through a feedback capacitor to the current stabilizer.

1/1

1/3 050 TITLEEXCITATION OF STI MODULATION OF LASER QU AUTHOR-(04)-KOROLEV, F.A	ALITY BY THE SUBSIANCE	IN LIQUIDS DURING BEING STUDIED -	-0-	
COUNTRY OF INFOUSSR				
SOURCE-PIS'NA ZH. EKSP.	TEOR. FIZ. 1970, 11(6	1, 295-7		
DATE PUBLISHED70				
SUBJECT AREAS-PHYSICS			•	
TOPIC TAGS-RAMAN SPECTR	UM, LIGHT SCATTERING, TETRACHLORIDE, CYCLOH	LASER MODULATION EXAME, LASER PUR	(, RUBY _ SE	
CCNTROL MARKINGNO REST	RICTIONS			
DOCUMENT CLASS—UNCLASSI PROXY REEL/FRAME—2000/1	FIED 170 STEP NO-UR/	0386/10/011/006	/0295/0297	
CIRC ACCESSION NOAPO12	4825			
	UNGLASSIFIED			

2/3 1050 UNCLASSIFIED PROCESSING DATE--300CT70 CIRC- ACCESSION NO--AP0124825 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. ON THE BASTS OF REVERSE STIMULATED MANDELSTAM BRILLOUIN (MB) LIGHT SCATTERING, WHICH LEADS TO REFLECTION OF A CONSIDERABLE PART OF THE INCIDENT LIGHT OUTSIDE OF THE LASER, MODULATION OF LASER QUALITY WAS ACHIEVED. WITH AN EXPTL. EQUIPMENT COMPOSED OF: A MIRROR, RUBY CRYSTAL (120 MM); FOCUSING LENSE, CELL 940 CM), AND SPECTROGRAPH, THE EFFECT OF BENZENE (1), CYCLOHEXANE (11), AND CCL SUB4 (III) WAS STUDIED. ENERGY OF A SINGLE PULSE INCIDENT ON THE SUBSTANCE WAS SIMILAR TO 1.5 J. FOR I AND II, SIMILAR TO 1.2 FOR III. HALF WIDTH OF THE PULSE DURATION WAS SIMILAR TO 25 NSEC FOR I AND II, SIMILAR TO 20 FOR III. SPECTRAL STUDIES SHOWED THE PRESENCE OF 4-5 COMPONENTS OF MB LIGHT SCATTERING, LINEWIDTH OF SINGLE COMPONENT WAS SIMILAR TO 10 PRIME NEGATIVES CMEPRIME NEGATIVES (WHICH IS CONSIDERABLY LOWER IN COMPARISON WITH THE LINEWIDTH IN THE REGIME OF FREE GENERATION. 0.35 CM PRIME NEGATIVELL. IN 1.4 STOKES EMISSION COMPONENTS WITH A SHIFT OF 992 CM PRIME MEGATIVEL WERE EXCITED (THE POWER OF THE 2ND WAS IN II 2 STOKES COMPONENTS WERE EXCITED HIGHER THAN 15 MW.). CORRESPONDING TO THE MOL. VIBRATION 2852 CM PRIME NEGATIVE! (THE MOST INTENSE COMPONENT IS SIMILAR TO 20 MW.), 2 COMPONENTS OF THE VIBRATION 801 CM PRIME NEGATIVEL, AND 2 CCMBINATION STOKES FREQUENCIES WITH SHIFT (2852 PLUS 801) AND (2 TIMES 2852 PLUS 802) CM PRIME NEGATIVEL. IN III 4 STUKES COMPONENTS WITH SHIFT 459 CM PRIME NEGATIVEL HERE EXCITED (THE 2NO WITH SIMILAR TO 10 MW.). HIGHER POWER OF THE EXCITING PULSE AND MORE EFFECTIVE EXCITATION OF THE RAMAN SPECTRA WERE FOUND THAN WITH EQUIPMENT USING A SATURABLE ABSORBER FOR THE MODULATION OF LASER UNCLASS I F LE D

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

3/3 \050		UNCLASSIFIED			PROCESSING DATE300CT70				
CIRC ACCESSION NO-ALABSTRACT/EXTRACT-FAL	CILITY:	MOSK.	GO S .	UNIV.	IM.	LOMON	USOVA,	MOSCON:	1
USSR.					1.			:	
					\$1.5 1.1				
	* .		数一生 。		1.				
	j.				1			•	
				la i i .	-1		• ,		
							:		
					. : -				
								•	
							i		
						- 1			· · · · · · · · · · · · · · · · · · ·
					į		:		
				La est est o					
화원도 한 100명 : 100g : 10									

USSR

UDC: 632.95

ODINTSOV, V. S.

"Biochemical Fundamentals of Using Organophosphorus Insecticides"

Kiev, Biokhimicheskiye osnovy primeneniya fosfororganicheskikh insektitsidov (cf. English above), "Nauk. dumka", 1972, 175 pp, 10N551 K by T. A. Belyayeva)

Translation: The monograph contains the following sections: 1) a brief historical survey on insect esterases as applied to organophosphorus insecticides; 2) experimental data on the part played by insect esterases in the mechanism of the toxic action of organophosphorus insecticides (dynamics of the activity of insect esterases in ontogenesis; antiesterase and insecticidal families of insects of the order Diptera; histochemical study of localization of the activity of esterases in the central nervous system of insects; structural elements of the central nervous system of insects; structural elements of the central nervous system of insects; investigation of croelectrophoresis in polyacrylamide gel); 3) practical testing of toxic 1/1

- 41 -

USSR

UDC 577.153.595.771+661.718.1

3

ODINISOV, V. S.

Biokhimicheskiye Osnovy primeneniya fosfororganicheskikh insektitsidov (Biochemical Bases of the Application of Organophosphorus Insecticides), Kiev, Naukova dumka, 1972, 173 pp.

Annotation

The monograph discusses the latest contemporary concepts of the physiological and biochemical mechanism of the toxic effect of organophosphorous insecticides (OPI) and critically examines literature data on the study of esterases of insects by various methods, and analyzes the toxicological and antiesterase action of various OPI and data on the dynamics of the activity of esterases in the ontogenesis of phylogenetically different families of dipterous insects, on the determination of the localization of esterases in the central nervous system of insects at the histo- and cytological levels, and on the physicochemical properties of esterases.

The book is intended for entomologists, biochemists, histologists, cytologists, epidemiologists, disinfection specialists, and chemists working on the development and testing of insecticides.

Contents

Introduction...

Part 1. Concise Outline History of Esterases of Insects With Respect to
Organophosphorus Insecticides
1/6

- 113 -

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

szurusszenesareturszeretenbourtiunski elitrikistiski illiniki illiniski illiniski illiniski illiniski illiniski

··· USSR	
ODINTSOV, V. S., Naukova dumka, 1972, 173 pp	
Investigation of the Activity of Insect Esterases by Biochemical Methods	. 9
Insect Esterases According to the Data of Histo- and Cytochemical Research	1 16
Study of Insect Esterases by the Electrophoresis Method	25
Insect Esterases and Their Role in the Mechanism of the Toxic Action of	-
Organophosphorus Insecticides	29
Modern Concepts of the Physical and Biochemical Mechanism of the Toxic	
Action of Organophosphorus Insecticides	38
Part 2. Experimental Data on the Role of Insect Esterases in the	
Mechanism of the Toxic Effect of Organophosporus Insecticides Materials and Research Methods	
Production of a Laboratory Culture of Insects	48
Biochemical Methods for Investigating the Activity of Esterases	40 50
Investigation of the Insecticidal Action of Certain Organophos-	, , ,
phorus Insecticides	59
A Method for Assessing the Practical Effectiveness of an Insecticide	e
Depending on the Species of Insect	62
The Ferment-Histochemical Method of Studying the Morphology and	
Topography of the Central Nervous System of Insects	63
Histochemical Method of Ascertaining the Localization of the	
2/6 Activity of Esterases in the Central Nervous System of Insects	64

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

<u>요즘</u> 하는 사람들은 사람들이 얼마를 걸려가 되었다.	
USSR	
ODINTSOV, V. S., Naukova dumka, 1972, 173 pp	
12 113 pp	
Cytochemical (Electron-Microscopic) Method of Ascertaining the	
localization of Esterase Activity in the Central Nervous	
bystem of Insects	65
Ultramicroelectrophoretic Method of Studying Esterases of the	
Central Nervous System of an Insect	66
Dynamics of Activity of Insect Esterases in Ontogenesis	
Activity of Acetyl Cholinesterase, Carboxyl Esterase and Aryl	
Esterase in the Ontogenesis of Houseflies	69
Activity of Acetyl Cholinesterase, Carboxyl Esterase and Aryl	
Esterase in the Ontogenesis of Bloodsucking Mosquitces	77
Activity of Acetyl Cholinesterase, Carboxyl Esterase and Aryl Esterase in the Ontogenesis of Bloodsucking Blackflies	
Antiesterase and Insecticidal Effect of Certain Organophosphorus	82
Insecticides on Phylogenetically Different Families of Diptera	
Inhibition of Acetyl Cholinesterase, Carboxyl Esterase and Aryl	
Esterase Imago of Houseflies, Bloodsucking Mosquitoes and	
Blackflies by Certain Organophosphorus Insecticides in Vitro	85
indiction of Acetyl Cholinesterase, Carboxyl Esterase and Arvi	رن
Esterase Imago of Houseflies, Bloodsucking Mosquitoes and Black-	
3/6 flies by Certain Organophosphorus Insecticides in Vivo	93
	23
+ 1 <u>.</u> 1.	

Morphological Adaptation of the Central Nervous Sys of Bloodsucking Blackflies Developing in Winter		
of Houseflies, Bloodsucking Mosquitoes and Blackf	lies 108	
Localization of Acetyl Cholinesterase, Carboxyl and Activity in the Central Nervous System of Larvae	Aryl. Esterase	
Localization of Acetyl Cholinesterase Activity in t Nervous System of Larvae of Bloodsucking Blackfli in Winter		
Investigation of the Morphology and Topography of to Nervous System of Insects Through the Histochemic of Neuroenzymes	el Detection	
on Houseflies, Bloodsucking Mosquitoes and Blacki Histochemical Investigation of the Localization of the Act Esterases in the Central Nervous System of Insects		
phosphorus Insecticides With Esterases of Phyloge Different Families of Insects by the Potentiometr Method Insecticidal Action of Esters of Alkyl Urethane Pho	ric Titration 95 osphorus Acids	
ODINISOV, V. S., Naukova dumka, 1972, 173 pp Investigation of Kinetics of the Interaction of Cen	rtain Organo-	

(基礎) 현실한 경험 전환 시간		
USSR 1990 1990 1990 1990 1990 1990 1990 199		
ODINTSOV, V. S., Naukova dumka, 1972, 173 pp		
Cytochemical (Electron-microscopic) Investigation of the Localization of the Activity of Esterases in Individual Structural Elements of the Central Nervous System of Insects		
Ultrastructure of Synapses and of Individual Structural Elements in the Central Nervous System of Insects Localization of Activity of Acetyl Cholinesterase in the Central	116	
Nervous System of Phylogenetically Different Families of Diptera Ultrastructure of the Synapse and Localization of the Activity of Acetyl Cholinesterase in the Central Nervous System of Pupae	119	
of Houseflies, of Bloodsucking Mosquitoes and Blackflies in Metamorphosis Investigation of Esterases of the Central Nervous System of Insects by Ultramicroelectrophoresis in a Polyacrylamide Gel Ultramicroelectrophoretic Study of Acetyl Cholinesterase, Cirboxyl	123	
Esterase and Aryl Esterase of the Central Nervous System of the Larvae of Houseflies Commerciate Study of Constellations of Esterases in the Eodies and	126	
Central Nervous System of Phylogenetically Different Diptera 5/6 Families	128	
- 115 -		

ODINTSOV, V. S., Nauko	ova dumka, 1972	2, 173 pp		
Part 3. Practical Tes Form of Foam St Laboratory and Field T Carbon Disulfid sucking Mosquit	ests of the To	sects xicity That for the Lew	Gaseous	
Insecticidal Effect of	Ges-Air Foam	us Redes (Filler: FA	el on dita	
of Bloodsucking Conclusion Bibliography Name Index	Mosquitoes of	the Genus	Culex	143 145 151
				170
6/6				

17

USSR

UDC 632.95

ODINTSOV, V. S., PETRENKO, V. S., TERTYSHNYY, V. N., KHARSUN, A. I.

"Enzymes — Targets of Organophosphorous Insecticides in the Metamorphosis of Flies"

Fiziol. aktivn. veshchestva. Resp. mezhved. sb. (Physiologically Active Substances. Republic Interdepartmental Collection), 1972, vyp. 4, pp 26-28 (from RZh-Khimiya, No 2 (II), Feb 73, Abstract No 2N474)

Translation: In order to discover the relation between the activity of esterases and the physiological activity of insecticides with respect to insects a study was made of the nature of the activity dynamics of acetylcholinesterase, carboxylesterase and arylesterase in larvae, pupae and winged houseflies during ontogenesis. The colorimetric hestrine method was used to establish the high activity of the three esterases in the given steps of metamorphosis. The weak physiological activity of organophosphorous compounds in the individual stages of metamorphosis, in particular, the pupae, is explained not by the absence of active enzymes — targets — but by a peculiarity of pupal metamorphosis (a nonfeeding phase) and the physical-chemical properties of the compounds. The necessity for using strongly fumigating organophosphorous insecticides for successful control of the pupae stage of development of insects is demonstrated.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

THE STATE OF THE S

USSR UDC 621.039

SHIKHOV, S. B., IGNATOV, A. A., and ODINTSOV, V. S.

"Solution of the Problem on Radiation Transfer With Representation of the Continuous Portion of the Spectrum of the Transfer Operator by Discrete Points"

V sb. Fiz. yadern. reaktorov (Physics of Nuclear Reactors -- Collection of Works), No 2, Moscow, Atomizdat, 1970, pp 82-90 (from RZh-Fizika, No 4, Apr 71, Abstract No 4V547)

Translation: Application of the Case method to transpert problems is made difficult by the fact that to find the coefficient $\Lambda(\nu)$ in the integral term one must solve a singular integral equation. An approximation method is proposed for solving the singular integral equation based on representing the integral term in the interval $\nu \in \{-1, 1\}$ by a finite sum; the points of division of the interval ν_1 , i=1-n are roots of the equation $h_N(\nu)=0$, where $h_N^*(\nu)$ is the N-th moment of the expansion of the elementary solution of $\Phi(\nu, \mu)$ in Legendre polynomials. N is greater than or equal to the order of anisotropy of the scattering nucleus. The problem of the passage of neutrons through a multilayered plate was solved by this method 1/2

USSR

SHIKHOV, S. B., et al, Fiz. yadern. reaktorov (Physics of Nuclear Reactors -- Collection of Works), No 2, Moscow, Atomizdat, 1970, pp 82-90 (from RZh-Fizika, No 4, Apr 71, Abstract No 4V547)

in the transport approximation. A Green's function was constructed for any layer, and the relationship was derived between the angular moments $\psi_k(\chi, \mu)$ for two different layers. The boundary conditions are achieved approximately by the Marshak method or for a number of discrete directions. A. G. Promokhov.

2/2

- 74 -

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

UDC 591.8:577.4:591.481:595.774

ODINTSOV. V.S., TERTYSHNYY, V.N., and ALEKSYENKO, I.P., Institute of Organic Chemistry, Academy of Sciences Ukrainian SSR, Kiev

"Localization of Acetylcholinesterase Activity in the Central Nervous System of Larvae of Blood-Sucking Gnats (Diptera; Simulidaw) Developing in Winter."

Moscow, noklady Akademii Nauk SSSR, Vol 190, No 1, Jan/Feb 70, pp

Abstract: Young larvae of blood-sucking gnats (species Odagmis), obtained from forest ponds and streams in the Kiev area in January, 224-226 1969, were used. With the help of specially prepared needles, the nervous network was exarticulated from the larvae, placed in icecold distilled water, and (after fixation) incubated in a medium from which Pb(NO₃)₂ was excluded. Acetylthiocholine iodide was used as a substrate. Hydrogen sulfide in Ringer solution was used to impart a strate. Hydrogen sulfide in Ringer solution was used to impart a dark-brown color to the colorless copper thiocholinate. The nervous natural was then washed with distilled water theated with low courses. network was then washed with distilled water, treated with 10% neutral formalin, washed again, and embedded in glycerin-gelatin. control experiments, the nervous network prior to incubation was 1/2

CIA-RDP86-00513R002202230010-9" APPROVED FOR RELEASE: 09/17/2001

USSR

ODINTSOV, V. S., et al., Moscow, Doklady Akademii Nauk SSSR, Vol 190, No 1, Jan/Feb 70, pp 224-226

treated with eserine. Microphotography showed that the dark-brown zones in the ganglia and connectors of the central nervous system of the larvae are areas of localization of the greatest acethylcholine-sterase activity, leading to the conclusion that the intensity of the coloration may serve as a criterion of the intensity of acetylcholinesterase activity. It was histochemically established that acetylcholinesterase is highly active in certain zones of all ganglia of the central nervous system, particularly in the areas of the neuropil, synaptic connections, and peripheral zones. Slight coloration in other zones of the ganglia is an indication of low acetylcholinesterase activity. The high acetycholinesterase activity in the central nervous system of the wintering larvae of gnats indicates that the property of continuous development is characteristic of this species, and is responsible for the large increase of the spring population of these particularly vicious blood-sucking insects.

2/2

ODINTSOV	netics by Not Extrusion of Zirconium es in the Regions of Their Homogeneity ko, R. Ya. Petrykina)	Work Function of Silicon Carbide [L.N. Okiremchuk). Electrical Resistance of Composite Materials [Yo. M. Petroya) Hoat Capacity Measurement in Sume Coramic Materials [D.M. Karpinos, V.S. Kilmenko). Thormal Conductivity of Reinforced Plustics [D.M. Karpinos, V.S. Kilmenko]. One Optimum Case of a Method of Akial Thermal Flow for Determining the Confficient of Thermal Conductivity [B. M. Surpinos of Thermal Conductivity [B. M. Karpinos	T Y On	JPRS 59873 JPRS 59873 23 August 1973
O THE STATE OF THE	3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Les Tring tiple a factorine with	and the second standard the second standard to the second	SAPLET TELL MENTAL ASSESSMENT ASS

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9

THE CHIEFE BLOCKS BEACHTSSEE AND HERE IN A SECOND AND AND AND AND AND AND AND AND AND A	HIPPERS			A DE LA DESCRIPTION DE LA COMPANION DE LA COMP			THE RESERVE OF THE STATE OF THE	
	Fracti	Effect Prop	Rare-E încrea	Effect o Transf (S Study of Transi	Removal Study of fungs Heato	Production of Dodecabors (Y.Y.) Sintering Ti	CONTENTS (Con Production of Under Press (G.V. T Production of Containing (V.I. M	
	Fractionation of Fine (A.F. Shapoval).	Proporties of Hickel Fer (L.A. Alekseyuk) Interaction of Fransition (E.V. Kutysheva)	Rare-Earth Metal Modificat (V.A. Karchchuk, A.I. Increasing the Physical an (P.I. Chaplygin)	Transformation in Titanium and Transformation in Titanium and Transformation Properties of Titansition Metals [V.F. Filippov]	of the Plasti G. v. Plyushel f Solid-Phase ton bisilicide x v.	Production of yttrium Subgro Dodecaborides [Y.Y. Odintnoy] [Y.Y. Tanium Diboride- [O.V. Zaverukha]	tinued) Silicon ure ure runov). Highly Rofracte otyarhay	
	Metallic Powders	m, and rite	ion of Cherka	Shife d Zi		n of Yttrium Subgroup Rare-Earth Met Prides (<u>Odintnoul</u> Titanium Diboride-Molybdenum Compac () Zaverukha)	· 0 · w '\	
23	И	Oxides	per total	t of the Alpha-Bet rconium	xtruded	Earth Metal	TRAS 5987 arts by Hot Casting Coppor-mass Powder c	
		the	Off Cert	Heta-	Herd-Alloy Parts um and Electron-Beam		73 Party Composites	
	901	\$ \$	B B	71 75	59	U1 & &	37 37	ZHEW TH

USSR

UDC 669.781.053.28

LADERNO, Yu. B., ODINTSOV, V. V.

"Production of Metal Dodecaborides by Borothermal Reduction of Metal Oxides"

Metalloterm. Protsessy v Khimii i Metallurgii, [Metallothermal Processes in Chemistry and Metallurgy -- Collection of Works], Novosibirsk, Nauka Press, 1971, p 39-43. (Translated from Referativnyy Zhurnal Metallurgiya, No 3, 1972, Abstract No 3G143 by the authors).

Translation: Studies are performed of the production of metal dodecaborides by reduction of metal oxides in a vacuum using a charge with an excess of B. Single-phase dodecaborides with UB₁₂ structure are formed when the initial charge contains 4-6 % excess B, which apparently results from defects in the metal dodecaboride lattices. 2 tables; 11 biblio refs.

1/1

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

UDC 656.25.071.84.002.56

USSR

SHAYEVSKIY, H. A., GIL'BURD, L. M., Chief Designers of the Odessa Branch of the Central Design Office of the Ministry of Railways, ODINTSOVA, A. I., GOL DSHTEYN, V. P., Design Engineers

"IKI-ST Meter for Fringe Distortions of Telegraph Signals"

Moscow, Avtomatika, Telemekhanika : Svyaz', No 10, 1971, pp 11-14

Abstract: The technical specifications, operating conditions, speed control conditions, and transmitter contact regulation of the IKI-ST meter which measures fringe distortions of telegraph signals with high accuracy are discussed. The meter has been prepared for series production at the Odessa Promsvyaz' Plant. It is designed to measure the distortions of single-current and double current signals code No 2, to regulate the transmitter contacts of the telegraph set, and to monitor and control the telegraph speed. Provision is made to measure distortions at speeds of 50, 75 and 100 baud. The measurement of the start-stop distortions is based on the start-stop method of receiving code combinations and comparison of the proposed characteristic modulation times developed by the meter with the actual reproduction times of the signal reaching the inputs of the meter. The operation of the device is illustrated by diagrams.

1/1

CIA-RDP86-00513R002202230010-9" APPROVED FOR RELEASE: 09/17/2001

UDC 582.28+632.4

USSR

G., All-Union Scientific Research Institute of Plant Growing

"Race Differentiation of Phytopathogenic Fungi in Relation to the Genetics of Virulence"

Leningrad, Mikologiya i Fitopatologiya, No 6, 1971, p 538

Abstract: In this paper, read before the Mycology Section of the All-Union Botanical Society (23 March 1971), the author notes that the standard set of varieties of Steckman differentiators for brown rust of wheat contains only 5 genes out of 18 now known in North America. Thus, this set differentiates the fungus population on the basis of 5 virulence genes from the 18 in existence. The use of other differentiators along with the standard set would greatly improve the value of race analysis of pathogens for breeding resistant plants. The best approach is to use a differentiating set of monogenic strains in which each strain contains one resistance gene. As the gene loses effectiveness, the corresponding strain can be eliminated from the series and, conversely, a series can be replenished with new strains as new genes are discovered.

1/1

- 58 -

1911 (2012) A LITE AND ALIGNES. PRINCE DE MANDE LE PRINCE DE L'ANNO DE

CIA-RDP86-00513R002202230010-9" APPROVED FOR RELEASE: 09/17/2001

PROCESSING DATE--020CT70

TITLE--GEOACTIVITY OF SOLAK FLARES AS A FUNCTION OF BRIGHTNESS OF METAL

LINES IN THEIR SPECTRA, GEDACTIVITY OF SOLAR FLARES -U-

AUTHOR-1021-UDINISDYA. I.N., SHILOVA, N.S.

COUNTRY OF INFO--USSR SGURCE--MUSCOW, GEOMAGNETIZM I AERONOMIYA, VOL X, NO 2, 1970, PP 326-328

DATE PUBLISHED -----70

SUBJECT AREAS--ASTRONOMY. ASTROPHYSICS, EARTH SCIENCES AND OCEANOGRAPHY

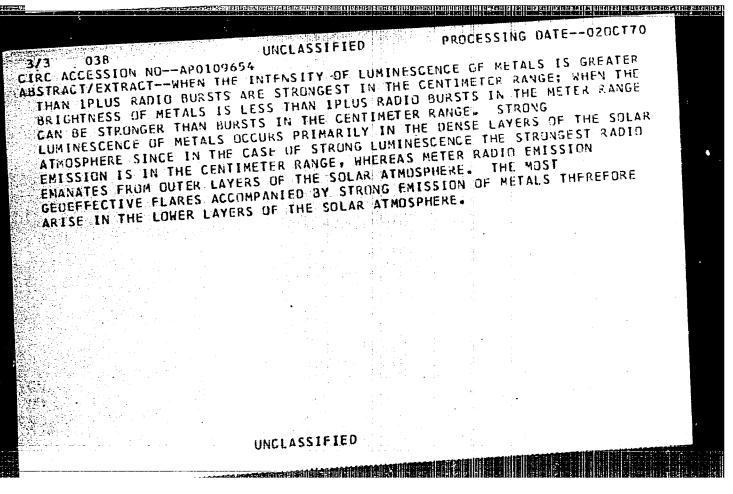
TOPIC TAGS--SULAR FLARE, LUMINESCENCE, SULAR DISC, SOLAR LIMB, IUNIZING RADIATION, LONOSPHERE, RADIO EMISSION, SOLAR ATMOSPHERE, METAL, GEDACTIVITY, GEOMAGNETISM, GEOMAGNETIC DISTURBANCE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1990/1658

STEP NO--UR/0203/70/010/002/0326/0328

CIRC ACCESSION NO--APO109654 UNCLASSIFIED



imc 539.374

USSR

ODISHVILI, K. A.

"Optimal Laws for the Change in the Thickness of a Flat Shell of Rotation"

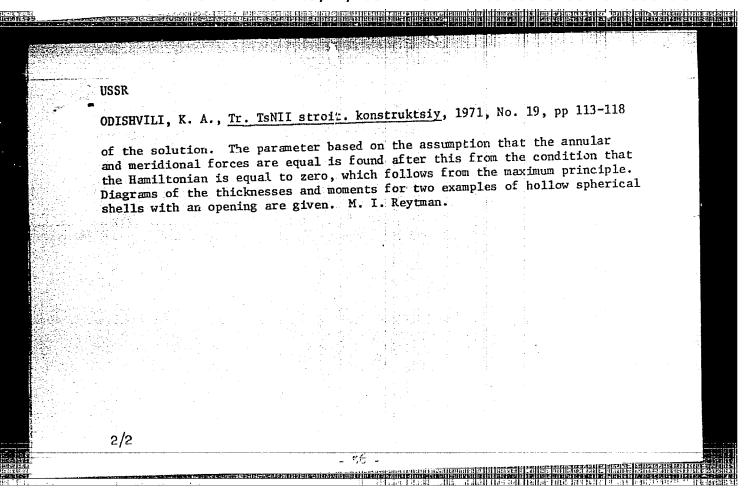
Tr. TsNII stroit. konstruktsiy (Works of the Central Scientific Research Institute of Structural Parts), 1971, No. 19, pp 113-118 (from RZh-Mekhanika, No 6, Jun 72, Abstract No 6V426)

Translation: The problem of determining the law for the change in thickness of an ideally plastic shell of rotation is considered under the condition that the minimum of the integral of the square of the thickness of the shell over the entire surface be the criterion for optimality. Use of the Mises condition in conjunction with the assumption that the quality of annular and meridional forces makes it possible to reduce the problem of optimization of such a shell to a problem in the theory of optimal systems in which no restrictions are imposed on the equations. This problem is reduced in turn to the solution of a system of linear auxiliary equations under the appropriate boundary conditions. Values for impulses in terms of which annular and meridional bending moments are easily expressed are obtained as a result

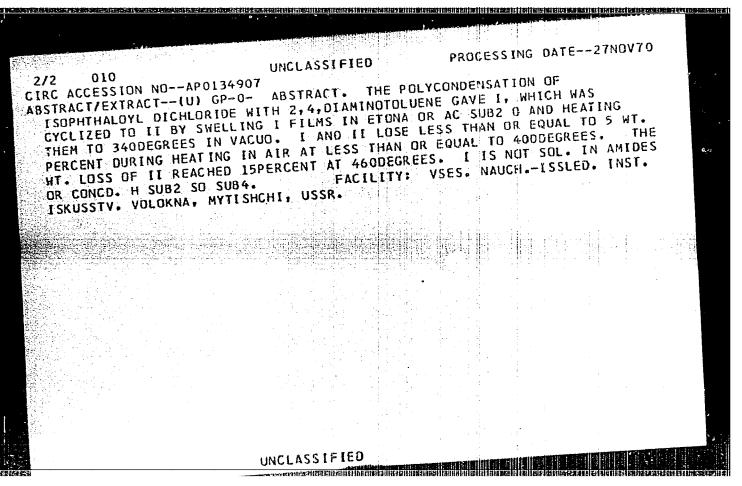
1/2

CIA-RDP86-00513R002202230010-9" **APPROVED FOR RELEASE: 09/17/2001**

THE CONTROL OF THE CO



PROCESSING DATE--27NOV70 UNCLASSIFIED TITLE--POLYAMIDE INDOLE -U-AUTHOR-(04)-KIDRYAMISEV, G.I., CONDRALOVA, V.N., NAZIMOVA, N., SHABLYGIN, M.V. COUNTRY OF INFO--USSR SOURCE-VYSOKOMOL. SOEDIN., SER. B 1970, 12(5), 371-3 DATE PUBLISHED -----70 SUBJECT AREAS--CHEMISTRY TOPIC TAGS--CONDENSATION REACTION, AMIDE, INDOLE DERIVATIVE, TOLUENE, CHLORINATED ORGANIC COMPOUND, AROMATIC ANINE CONTROL MARKING--NO RESTRICTIONS STEP NO--UR/0460/70/012/005/0371/0373 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3006/1233 CIRC ACCESSION NO--APO134907 UNCLASSIFIED



UDC 536.46 + 662.222.2

NISSR KSANDOPULO, G. I., KOLESNIKOV, B. Ya., ZAVADSKIY, V. A., ODNOROG, D. S.,

YELOVSKAYA, T. P., Alma-Ata

"Mechanism of Inhibition of Combustion of Hydrocarbon-Air Mixtures by Finely Dispersed Particles"

Fizika Goreniya i Vzryva, No 1, Mar 71, pp 92-99.

ABSTRACT: Inhibited atmospheric propane flames were studied by the method of sampling from the flame using a quartz microtube to take samples for mass-spectrometer analysis. The reaction was quenched in the samples taken in less than 50 μ sec by the adiabatic expansion of the stream of sampled gases moving through the capillary into the sample chamber. Analysis of the concentration profiles formed in the reaction zone of the flame indicate that the first summary process is that of fractionation of the initial fuel molecules. As the concentration of propane decreases, the concentration of its fragments increases. The process of inhibition by solid particles is reduced on the one hand to accelerated formation of formaldehyde and on the other hand to inhibition of its loss by recombination of the OH radical on the surface of the solid particles. The change in the effectiveness of inhibition is in proportion to the total surface area of particles and depends on their nature. This proves the heterogeneous mechanism of inhibition of combustion.

1/1

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

UNCLASSIFIED PROCESSING DATE--300C170
1/2 006 UNCLASSIFIED PROCESSING DATE--300C170
TITLE--CHLOROMETHYLATION OF ALIPHATIC AROMATIC KETONES -U-

AUTHOR-(03)-DDOYEVA, G.A., EPSHTEYN, G.L., SOCHILIN, YE.G.

COUNTRY OF INFO--USSR

SOURCE--ZH. ORG. KHIM. 1970, 6(3), 478-80

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--ALKYLATION, CHLORINATION, ALIPHATIC KETONE, AROMATIC KETONE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1992/1672

STEP NO--UR/0366/70/006/003/0478/0480

CIRC ACCESSION NO--APOLIZAGE

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

4.CLC SUB6 H SUB4 CUME PRESENCE OF H SUB3 PO PH, 4.CLC SUB6 H SUB4, CHLOROMETHYLATION OF 2 2.4.6.3.ME SUB3 (CLCH	UNCLASSIFIED 2666 -O- ABSTRACT. THE CH , OR 3.4, ME SUB2 C SUB SUB4 GAVE 58-61PERCENT OR 3.4, ME SUB2 C SUB6 ,4.6, ME SUB3 C SUB6 H SUB2) C SUB6 HAC, DUE FACILITY: LENINGRAD.	H SUB3). HOWEVER, THE SUB2:AC GAVE TOPERCENT TO HINDERING BY ME GROUPS IN	
LENSOVETA, LENINGRAD,	022K+ 11 11 11 11 11 11 11 11 11 11 11 11 11		
교 : 교육: 1888년 -			

UDC 582.263.093.3

USSR

ODOYEVSKAYA. N. S., Institute of Microbiology, Academy of Sciences USSR

"Use of Broad-Spectrum Light Filters for Culturing Chlorella vulgaris"

Moscow, Mikrobiologiya, No 3, 1970, pp 410-413

Abstract: The effect of colored Plexiglas light filters on the formation of Chlorella vulgaris biomass and pigments was studied. The number of cells almost doubled when the intensity of the illumination was increased from 2,000 to 6,000 lux. The accumulation of pigments also increased, but not to the same extent as the number of cells. The spectral composition of the light had an effect only at 2,000 lux. The content of carotenes and chlorophylls a and b was highest when a blue and especially a red filter was used, and lowest when a green filter was used. The effect of more intense light (6,000 lux) on the pigment composition and yield was less pronounced.

1/1

USSR

UDC 669.295.018.9(088.8)

TURKINA, A. N., ODOYEVSKIY, L. S., KHAZANOVA, T. P., KARSANOV, G. V., ANOSHKIN, N. F., TSISTYAKOV, Ye. P., PAVLOV, A. G., TRUBIN, A. N., and TETYUKHIN, V. V.

"Master Alloy for Production of High-Strength Titanium Alloys"

USSR Author's Certificate No 309061, filed 15/07/69, published 20/09/71 (Translated from Referativnyy Zhurnal Metallurgiya, No 3, 1972, Abstract No 3G159P by G. Svodtseva)

Translation: A master alloy for the production of high-strength Ti alloys, containing Mo, V, and Al. To increase the quality of the ingots produced, the alloy includes Cr and Fe with the following relationships of components (in Z): Mo 32-34, V 32-34, Al 18-22, Cr 6-8, Fe 5-7. The master alloy can be produced either by direct smelting of the metals in an open induction furnace or by an aluminothermal method in a furnace.

1/1

- 53 -

USSR UDC 621.375.82

MANUIL'SKIY, A. D., ODULOV, S. G., SOSKIN, M. S.

"A New Method for Studying Heterogeneously Broadened Spectra of the Active Media of Lasers"

V sb. Peredacha energii v kondensirovan. sredakh (Energy Transfer in Condensed Media -- Collection of Works), Yerevan, 1970, pp 116-124 (from RZh-Fizika, No 7, Jul 71, Abstract No 7D1059)

Translation: The generation of silicate (LGS-24/2) and phosphate (KGSS-56) glasses in a cavity resonator in which many excited internal modes are closed to internal reflection from the polished surfaces of the sample is investigated. It was observed that with a lowering of temperature the total width of the spectra increases greatly. The dependence of the magnitude of homogeneous broadening of luminescence in the 1.06 µ band on temperature in both glasses was derived on the basis of temperature measurements of the width of the generation spectrum. It was observed that with a lowering of temperature the homogeneous width does not tend to zero, but in the high-temperature region the homogeneous expansion is accelerated. In phosphate glass the dependence of the homogeneous broadening on temperature is considerably weaker than in silicate glass. It is concluded that homogeneous broadening in glasses is determined basically by direct interaction with fluctuations in the matrix, and the width observed is related to broadening of the final level of the transition. The change in the rate of energy transfer between Nd³⁺ at various temperatures is discussed. V. N. Sh.

USSR

UDC: 621.373:530.145.6

MANUIL'SKIY, A. D., ODULOV, S. G., SOSKIN, M. S.

"A New Method of Studying Nonumiformly Broadened Spectra of Active Laser Media"

V sb. Peredacha energii v kondensirovan. sredakh (Energy Transmission in Condensed Media--collection of works), Yerevan, 1970, pp 116-124 (from RZh--Rad:otekhnika, No 5, May 71, Abstract No 5D212)

Translation: The authors studied emission of silicate and phosphate glasses activated by trivalent neodymium cation in the 1.06 μ region. The emission spectrum produced by these specimens over a wide temperature range is typical of spectrally nonhomogeneous media. The temperature dependence of homogeneous broadening of the spectrum of an individual ion is determined. It is shown that when the temperature falls, the uniform width of transitions of trivalent neodymium cations on the investigated segment of the frequency band of luminescence does not tend to zero. In the high-temperature region, the increase in uniform broadening is accelerated. It was found that the uniform width of the spectrum in these glasses is determined chiefly by interactions with lattice vibrations. A. K.

1/1

Construction

USSR

wc 539.4.624

CDUZHEV, F. H., and KULIYEV, R. A.

"The Strength and Deformability of Stone, Vibrostone, and Expanded-Clay-Foam-Concrete Panels Under the Action of Static and Cylindrical Londs, Which Brings About Skewing in their Plane"

Moscow, Vses. Soveshch. "Proyektir. 1 Str-vo Seysnostoyk. Zdaniy i Sooruzh.," 1971 (All-Union Conference "Designing and Construction of Earthquake-Proof Building and Structures," 1971), 1971, pp. 87-93 (from Referativnyy Zhurnal, Mekhanika, No 2, Feb 72, Abstract No 2V1050 by M. Kh. Leybur)

Translation: The procedure and results of experimental research are presented on determination of the calculation parameters of the piecewise and vibratory placement of sawable limestone and expanded-clay-foam-concrete panels. Research on the resistance of conventional and vibratory placement to skewing was conducted basically on samples with the side ratio $\beta = a/b = 0.63 = 1.6$ and the foam concrete panels had $\beta = 1$. The testing procedure was identical. The load was applied to the samples along one of their diagonals. Failure of all the samples started with the formation of cracks along the corpressed diagonal. Loss of the carrying capacity of the placement samples occurred with the formation of cracks along the horizontal seams. Nonvibrated samples with $\beta = 0.63$ broke 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

Luminescence

UDC 541.138.2:546

USSR

GARDIN, YU. YE., KULABUKHOV, V. M., ODYNETS, L. L., PERSHINA, G. A., Petrozavodsk State University Imeni O. V. Kuusinen

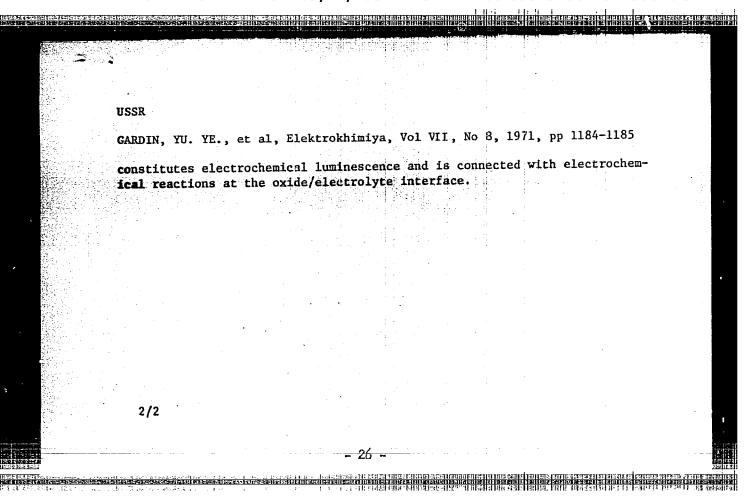
"Mechanism of Galvanoluminescence During Anodic Polarization of Aluminum Oxide"

Moscow, Elektrokhimiya, Vol VII, No 8, 1971, pp 1184-1185

Abstract: A study was made of the spectral composition of the galvanoluminescence during anodic polarization of systems made up of aluminum, aluminum oxide and an electrolyte. The oxide layer was obtained by anodic oxidation of aluminum (99.99% pure) in two different electrolytes: a) an aqueous solution of boric acid (30 g/liter) with borax (0.05 g/liter) and b) an aqueous solution of oxalic acid (30 g/liter). The galvanoluminescence spectra are plotted for the two given cases. In two series of experiments the structure of the oxide layers remained invariant; however, the galvanoluminescence spectra corresponded to the electrolyte in which the measurement was taken. The results obtained agree with the previously stated proposition [S. P. Maminova, Elektrokhimiya, No 1, 365, 1965] that in systems made up of a metal (semiconductor) oxide and electrolyte galvanoluminescence

1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"



USSR

UDC 37.521.7:621.315.61

ODYNETS L. L. PLATONOV, F. S., PROKOPCHUK, Ye. M.

"Electrical Breakdown of Oxide Films on Aluminum"

Moscow, Radiotekhnika i Elektronika, Vol 26, No 9, Sep 71, pp 1739-1740

Abstract: The authors studied the electrical breakdown of Al₂O₃ films made by anodizing 99.9965 pure aluminum in an aqueous solution of boric acid (30 grams per liter) and sodium tetraborate (0.05 gram per liter) at 70°C. Films 14C-5600 Å thick were studied. The experiments were conducted in a vacuum of 5·10⁻⁵-10⁻⁶ mm Hg at temperatures of -180 - +300°C. It was found that the electric strength of the films decreases with a rise in temperature. The electric field strength at breakdown of the film is asymmetric for opposite polarities, but this asymmetry decreases at temperatures in excess of 200°C. At comparatively low temperatures, an abrupt increase in the electric strength is observed for films thinner than about 2000 Å. This effect is not observed at 300°C. The experimental results show that breakdown of anodized films at moderately high temperatures is due to impact ionization by electrons.

1/1

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

USSR

UDC 541.1382:541

GARDIN, Yu. Ye., ODYNETS, L. L. and TUMAKUV, V. S., Petrozavodsk State University imeni U. V. Kuusinena

"Galvanoluminescence Upon Electrochemical Oxidation of Tantalum and Aluminum"

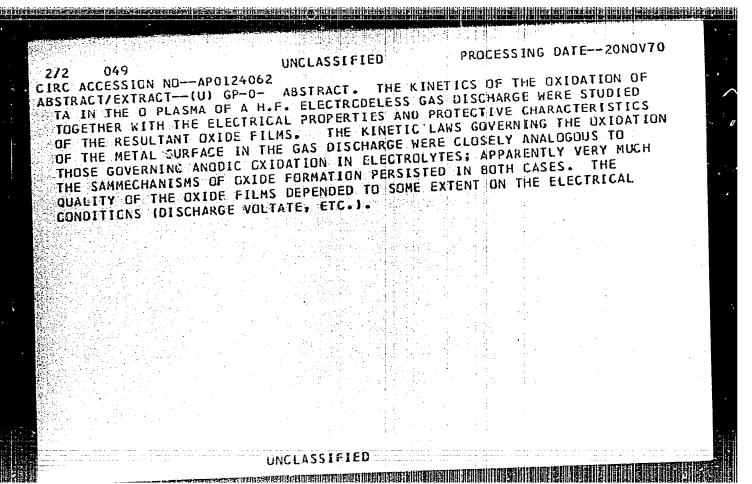
Moscow, Elektrokhimiya, Vol 6, No 10, Oct 70, pp 1562-1564

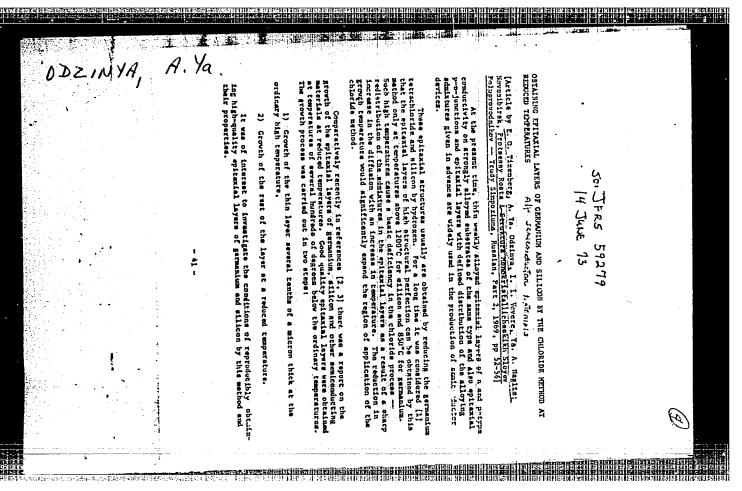
Abstract: A study was made of the basic regularities in the luminescence which occurs during electrochemical oxidation of tantalum and aluminum. The results of the study indicate that the luminescence of fully formed specimens results from the ionic current component. The anode luminescence is apparently a type of electrochemiluminescence, related to electrode reactions occurring at the oxide-electrolyte interface.

1/1

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

REFERENCIAL DE LE CONTRACTO DE LA CONTRACTOR DE PROCESSING DATE-20NOV70 TITLE-GXICATION OF TANTALUM IN THE OXYGEN PLASMA OF A HIGH FREQUENCY AUTHOR-(02)-MIKHALKIN, V.S., ODYNETS. L.L. CEUNTRY OF INFO-USSR SOURCE-ELEKTROKHIMIYA. MAR. 1970, 6, (3), 359-361 DATE PUBLISHED ---- MARTO SUBJECT AREAS--CHEMISTRY, PHYSICS, MATERIALS TOPIC TAGS-OXYGEN, TANTALUM, PLASMA DISCHARGE, OXIDATION, METAL OXIDE, SIBLIGGRAPHY, CHEMICAL KINETICS, ELECTROLYTE, ELECTRIC PROPERTY, OXIDE FILM CONTROL MARKING-NO RESTRICTIONS STEP NO--UR/0364/70/006/003/0359/0361 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/0303 CIRC ACCESSION NO--AP0124062 UNCLASSIBLED





USSR

unc 669.046.5

KRUPMAN, L. I., SOCHNEY, A. Ye., DETOCHKA, V. I., TELESOV, S. A., OFENGENDEN, A. M., and NESTEROVICH, R. P.

"Steel Refining in Ladle by Self-Fluxing (Exothermic) Slag Mixtures"

Moscow, V sb. "Sovremennyye problemy kachestva stali" (MISiS), (Collection of Works. Modern Problems of Steel Quality) (Moscow Institute of Steel and Alloys). Izd-vo "Metallurgiya," No 61, 1970, pp 244-246

Translation of abstract: Results are presented of an investigation of the burning rate of self-fluxing mixtures as a function of their thermal state and humidity of the lime used. A procedure is described for preliminary melting of such mixtures with liquid refining of slag in a ladle before casting. Data are presented on experimental heats with refining by self-fluxing mixtures for preliminary melting in a 140-ton ladle. Advantages in using such mixtures are as follows: the degree of desulfurization obtained with the addition of a 3% mixture is on the average 52%; the steel contamination with nonmetallic impurities is reduced; and its plastic properties are improved. 2 tables.

1/1

10 -

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

USSR

UDC 669.046.5

KUPERSHTON, V. Ye., LADYZHENSKIY, B. N., OFENGENDEN, A. M., and SERBIN, V. A.

"Slag Formation and Metal Desulfuration in Covering Slag With Dust-Like Lime"

Moscow, V sb. "Sovremennyye problemy kachestva stali" (MISiS) (Collection of Works. Modern Problems of Steel Quality) (Moscow Institute of Steel and Alloys) Izd-vo "Metallurgiya," No 61, 1970, pp 132-134

Translation of Abstract: The results of an investigation on slag formation and metal desulfuration in a 142-ton martin furnace with lime blowing are presented. 2 figures, 1 table.

1/1

52 -

UDC: 681.327.66:621.317.757

OFENGENDEN, R. G., RATMANSKIY, R. Yu., ANDREYEV, O. M., BEREZIN, F. N., DYSENKO, B. N., MATSKEVICH, G. G., ODINETS, G. S., SHALEYKO, M. A.

"A Pulse Analyzer"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 11, 1970, Author's Certificate No 265951, filed 25 Jan 68. p 41

Abstract: This author's certificate introduces: 1. A pulse analyzer with memory device of the periodic type, based for instance on a magnetic drum. The analyzer contains an analog-to-code converter, memory unit record and playback amplifiers, a data output module, and a control unit. As a distinguishing feature of the patent, the analyzer is simplified by incorporation of a device which records tags for the beginning and end of isolated segments on an auxiliary field of the periodic memory, a unit which codes these tags with its output connected to the recording amplifier, a tag playback amplifier, a device for decoding the reproduced tars, and a unit which passes pulses located in the isolated segments and which is controlled by the decoding device. 2. A modification of this pulse analyzer which has the distinguishing feature of automatic generation of control signals when predetermined number values are accumulated in selected channels. The analyzer contains a device for recording the indicated numbers on an auxiliary field of the periodic memory in phase with the arrangement of the data 1/2

CIA-RDP86-00513R002202230010-9" APPROVED FOR RELEASE: 09/17/2001

acorosa en constructuras parte international international de la constructura de la const

USSR

OFENGENDEN, R. G., et al, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 11, 1970

accumulated in the corresponding channels. Also incorporated in this pulse analyzer is a comparison unit with its inputs connected to the circuit for playback of signals recorded on this field and to the playback amplifier for the information field, while its output is connected to the circuit which shapes the control signals when the accumulated information is equal to or greater than the predetermined numbers. 3. A modification of this analyzer which has the distinguishing feature of numerical integration of the data accumulated in the isolated segments of the band being measured. The output of the pulse pass unit is connected to the input of the comparison unit. 4. A modification of this analyzer which is distinguished by its ability to record additional information in the memory device during data accumulation. The unit contains a commutator whose control input is connected to the track of a synchropulse field on which a signal is recorded which divides the zones where the measured and auxiliary information are recorded on the memory unit of the analyzer.

2/2

CIA-RDP86-00513R002202230010-9" APPROVED FOR RELEASE: 09/17/2001

USSR

UDC 621.791.55:/661.857+669.14/

1

BEREZHNITSKIY, S. N., BATAKSHEV, A. F., MITUS, A. K., ARTEMOV, N. S., and OFITSEROV A. M., Engrs.

"Welding of Silver to Steel"

Moscow, Khimicheskoye i Neftyanoye Mashinostroyeniye, No 11, Nov 71, p 21

Abstract: Ag cannot be welded to steel directly, because it forms no compounds or solid solutions with Fe. Use of an intermediate layer of pure Cu is unsatisfactory, because deoxidizers and modifiers are absent in Cu, so that pores and cracks develop in the welded joints. Use of standard welding wires of Cu alloyed with Si, Mi, Mn, Ti, and Fe was tried in the lap and butt welding of Ag to steel in experiments in which pure Ag 2 mm thick was welded with steel St. 3 2-11 mm thick. Welding wires with a diameter of 2-3 mm that consisted of bronze Br. KMts 3-1 or bronze Br. MNZh KT5 - 1-0.2-0.2 were used. Welding was carried out manually in Ar with a direct current arc (150-200 A, 15-18 V) at a rate of 15-20 m/hr. The joints that formed had a sufficient mechanical strength and retained their tightness in vacuo at temperatures up to 779°, the melting point of the Ag-Cu autectic. Microstructural analysis on etching with 4% HNO3 showed that defects (cracks,

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

SSR

BEREZHNITSKIY, S. N., et al., Khimicheskoye i Neftyanoye Mashinostroyeniye, No 11, Nov 71, p 21

pores, and lack of joining) were absent in the transitional zone between Ag and steel. The procedure that has been developed is being applied in the experimental production of equipment made of Ag and Ag-clad steel and welded with Br. NNZh KT5-1-0.2-0.2.

2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

USJR

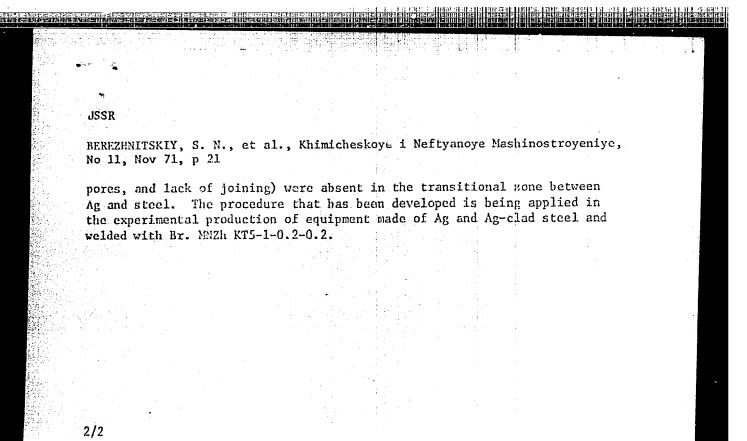
UDC 621.791.55:/661.857+669.14/

BEREZHNITSKIY, S. N., BATAKSHEV, A. F., MITUS, A. K., ARTEMOV, N. S., and OPITSEROV. A. M., Engrs.

"Welding of Silver to Steel"

Moscow, Khimicheskoye i Neftyanoye Mashinostroyeniye, No 11, Nov 71, p 21

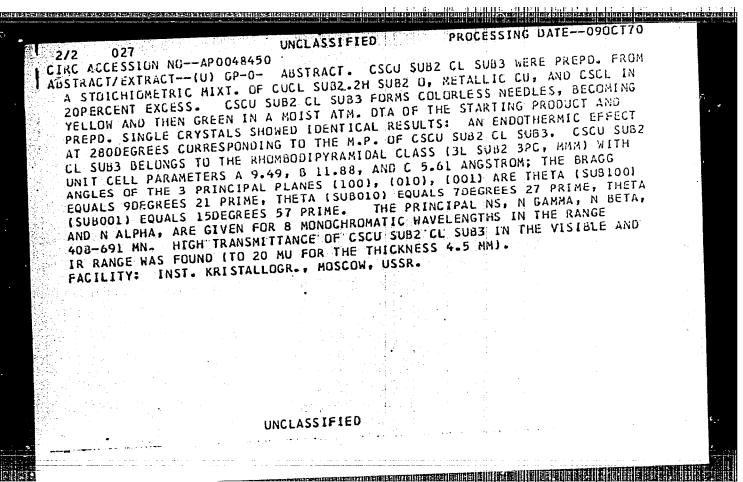
Abstract: Ag cannot be welded to steel directly, because it forms no compounds or solid solutions with Fe. Use of an intermediate layer of pure Cu is unsatisfactory, because deoxidizers and modifiers are absent in Cu, so that pores and cracks develop in the welded joints. Use of ctandard welding wires of Cu alloyed with Si, Ni, Mn, Ti, and Fe was tried in the lap and butt welding of Ag to steel in experiments in which pure Ag 2 mm thick was welded with steel St. 3 2-11 mm thick. Welding wires with a diameter of 2-3 mm that consisted of bronze Br. KMts 3-1 or bronze Br. MNZh KT5 - 1-0.2-0.2 were used. Welding was carried out manually in Ar with a direct current arc (150-200 A, 15-18 V) at a rate of 15-20 m/hr. The joints that formed had a sufficient mechanical strength and retained their tightness in vacuo at temperatures up to 779°, the melting point of the Ag-Cu eutectic. Microstructural analysis on etching with 4% HNO3 showed that defects (cracks, 1/2



APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

TO THE REPORT OF THE REPORT OF THE PROPERTY OF

1/2- 027 FITLESYNTHESIS G	UNCL.	ASSIFIED Y UF THE OPTICAL	PROCESSING DATE- CHARACTERISTICS),
AUTHOR- (05) - BELYAY	EV, L.M., SUBUL (A, V.V. ISSR	0	ARG, A.B., DMITRI	
SOURCE-KRISTALLO	GRAFIYA 1970, 15	5(1), 205-7		
DATE PUBLISHED				
SUBJECT AREAS—PH TOPIC TAGS—CRYST COPPER CHLORIDE TRANSMISSION	YSICS AL OPTIC PROPER . CESIUM COMPOU	TY, CRYSTAL GRUIND, CRYSTAL LAT	VING, THERMAL ANAL	YSIS, GHT
CONTROL MARKING-	-NO RESTRICTIONS			15/0207
DOCUMENT CLASS	UNCLASSIFIED 1980/0158	STEP NOUR/C	0070/70/015/001/02	, , , , , , , , , , , , , , , , , , ,
CIRC ACCESSION N	0-AP0048450 Uncla	SSIFIED		



UDC 576.895.4

गुरुवाम संकार मार्गासम्बर्धात विभागति स्वायं स्वयं में विभाग स्वायं के विभाग स्वायं के विभाग स्वायं के विभाग स

USSR

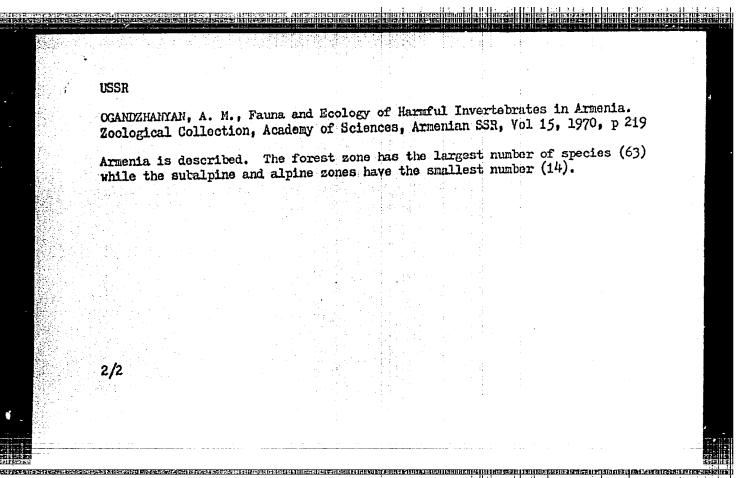
OGANDZHANYAN, A. M.

"Contribution to the Fauna and Zonal Distribution of Gamasid Ticks in Armenia"

Yerevan, Fauna i Ekologiya Vrednykh Bespozvonochnykh Zhivotnykh Armyanskoy SSR. Zoologicheskiy Sbornik AN ArmSSR, 15 (Fauna and Ecology of Harmful Invertebrates in Armenia. Zoological Collection, Academy of Sciences, Armenian SSR, Vol 15), 1970, p 219

Abstract: About 100 species of gamasid ticks belonging to 15 families are cited for the Armenian fauna. Their distribution within the republic, hosts, dates they were found, and places where freely moving predatory forms were found they were found. Most of the species (54) were found on rodents and in their burrows. Ten species were found on insectivores, six on bats, and five on predators. Nine species were found on birds, four of them endoparasites predators. Nine species were found on birds. Eight tick species were found in dwelling in the nasal cavity of the birds. Eight tick species were found in birds, nests and two on reptiles. Fourteen species were found on insects used for phoresy. A fairly large number of species (41) were found in the top layer of soil, in forest litter, under fallen leaves, haystacks, and noss, in hollows of trees, and so forth. The zonal distribution of gamasid ticks in 1/2

-112----



USSR

UDC 577.391:599.323.4

SAAKYAN, D. G. and OGANDZHANYAN, E. Ye., Radiology Sector, Ministry of Health Armenian SSR

The Effects of Prophylactic Administration of Sinestrol on Hematopoiesis and Survival of Irradiated White Mice"

Yeveran, Biologicheskiy Zhurnal Armenii, Vol 23, No 12, pp 86-87

Abstract: To investigate the protective effects of sinestrol with respect to radiation sickness, immature white mice were given 0.1 ml of a 2% solution of sinestrol in oil 7 days prior to irradiation with 800 r. The sinestrol caused a small reduction in the concentration of leukocytes and erythrocytes. After irradiation, the blood cell count further decreased, reached a minimum on the 7-9th day, and then gradually increased: 28 mice survived. Control mice, irradiated with the same dose, displayed a much more pronounced fall in the concentration of formed blood elements, with the minimum reached on the 11-14th day and followed by a much slower rise. All control mice died within approximately one month. The following conclusion was made: sinestrol is a useful protective agent against radiation sickness, inasnuch as it increases the survival rate by 37.3%, retards inhibition of hematopoiesis, and promotes a faster regeneration of the circulating blood.

TO THE PERSON AND THE PERSON AS A PERSON A

1/1

TORSES OF TESTS OF THE PRESENCE THE PROPERTY OF THE PROPERTY O

USSR

UDC 519.2:621.391

OGANDZHANYANTS, S. I.

"Certain Asymptotic Properties of a Time Process Differing From the Realization of Steady-State Random Gaussian Noise"

Leningrad, Metody predstavleniya i apparaturn. analiz sluchayn. protsessov i poley. 3-y Vses. simpozium. Sekts. 2 -- Sbornik (Methods of Display and Machine Analysis of Random Processes (Methods, Third All-Union Symposium, Section 2 -- Collection and Fields, Third All-Union Symposium, Section 2 -- Collection of Works), 1970, pp 75-79 (from Referativnyy Zhurnal -- Matematika, No 6, June 71, Abstract No 6V228, by Ya. Kogan)

Translation: Characteristics which for a wide enough range of observation distinguish random processes from steady-state gaussian noise with zero mean are indicated for a certain class of random processes. It is noted that introduction of this measure permits a more correct approach to problems of comparison and identification of signals.

1/1

. 28 -

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

USSR

and the same of th

UDC 621.316.722.1

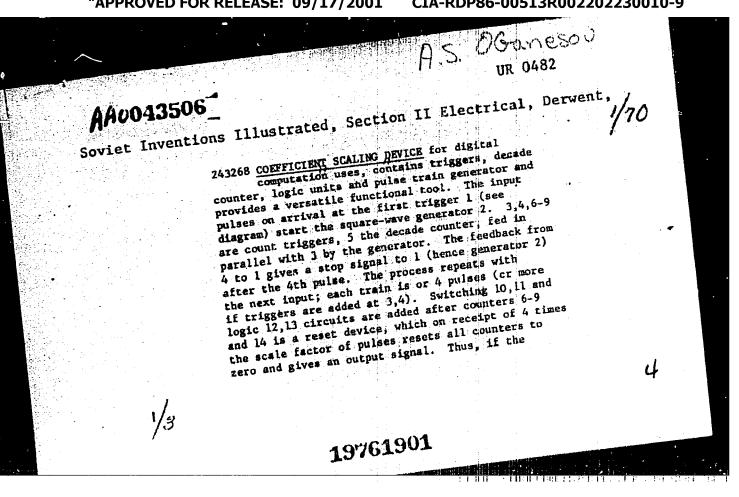
COANDZHANYANTS, V.I.

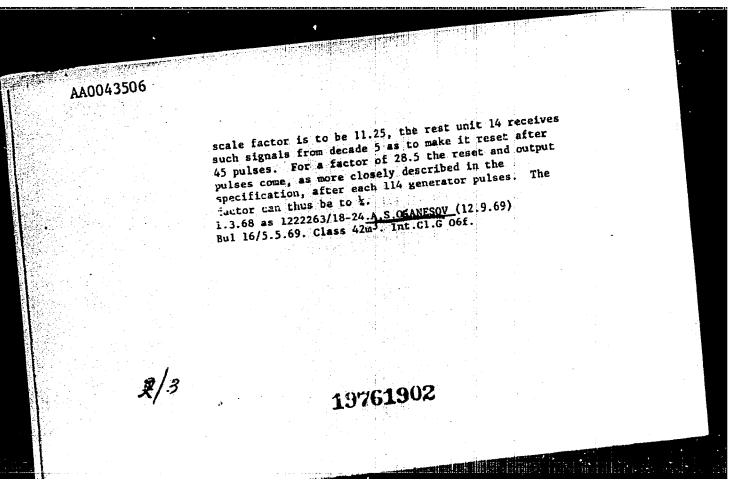
"Functional Units In Voltage Regulators And Their Reliability"

Izv. Leningr. elektrotekhn. in-ts (Bulletin Of The Leningrad Electrical Engineering Institute), 1969, No 88, pp 167-172 (from RZh-Elektronika i yeye primeneniye, No 10, October 1970, Abstract No 108374)

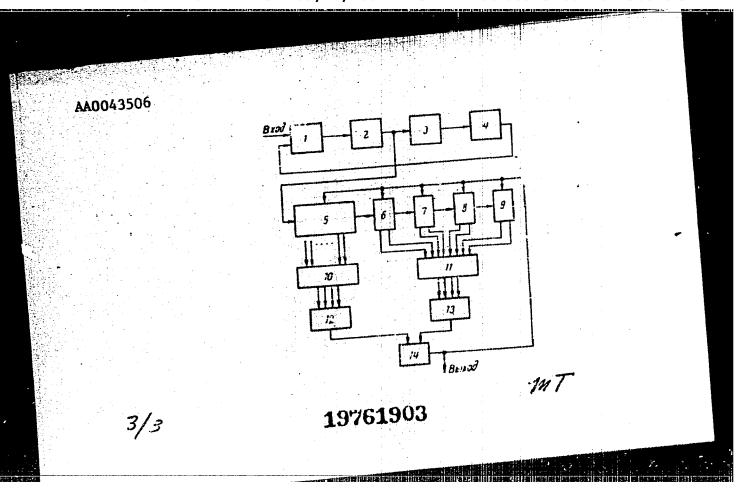
Translation: With satisfactory amplification of the feedback network, the output voltage of a compensation voltage regulator is determined by the magnitude of the reference voltage and the coefficient of division of the cutput voltage divider. Veing this condition, it is possible on the basis of the circuits of regulators to Using this condition, it is possible on the basis of the circuits of regulators to achieve various functional units, e.g., a summation device, a converter of resistance into d-c, a multiplier, etc. A series of such devices is considered as well as ance into d-c, a multiplier, etc. A series of such devices is considered as well as their reliability, which guarantees the requirements of marine automatic equipment. It ill. 2 ref. S.D.

1/1





"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9



UNCLASSIFIED PROCESSING DATE--300CT7C

UNCLASSIFIED PROCESSING DATE--300CT7C

TITLE-ELECTROPHYSICAL PROPERTIES OF THERMISTURS BASED ON POLYMERS WITH

AUTHOR-104)-OGANESOV. S.S., MARKOVICH, V.B., PAUSHKIN, YA.M., LUNIN, A.F.

COUNTRY OF INFO-USSR

SOURCE-DOKL. AKAD. NAUK SSSR 1970, 191(2), 330-3 (TECH PHYS)

DATE PUBLISHED----70

SUBJECT AREAS-CHEMISTRY, MATERIALS, PHYSICS

TOPIC TAGS—CONJUGATE BOND SYSTEM, CONJUGATED POLYMER, ORGANIC SEMICONDUCTOR, ELECTRIC PROPERTY, NITRILE, CYANAMIDE, THERMISTOR

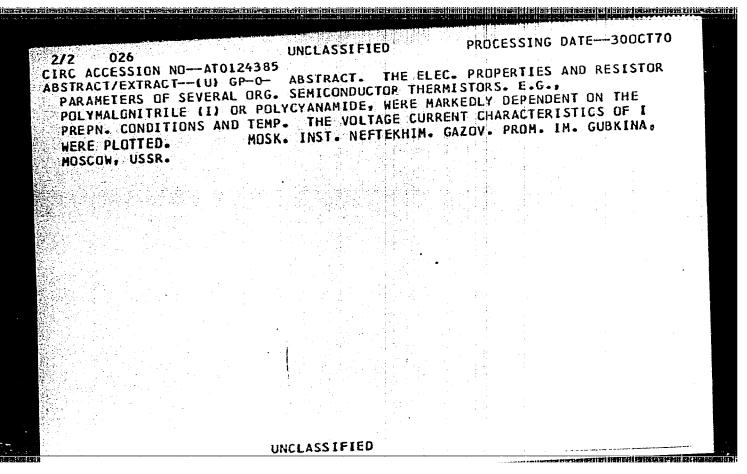
CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—2000/0715

STEP NO-UR/0020/70/191/002/0330/0333

THE REPORT OF THE PARTY OF THE

CIRC ACCESSION NO--ATO124385
UNCLASSIFIED



OMMERCIAL STREET, STRE					missa issui
		n Ref	. Code:	3	
	Abstracting Serv	ice:	190460		
Acc. Mr.	CHEMICAL ADDITION	1			
	nronerties	ON TOTAL A F. Alex	- :		
	mera. Paushkin, Ya. M.; Komissarov mera. Paushkin, Ya. M.; Komissarov sandrova. V. A.; Oganesov. S. S.; Mesandrova. V. (Inst. Settlering, Gazov.	shcheryakov, S. V. Sho			
			d		
	TISSED. Vysunomics Sentetion	of Natura Transaction ar	nd .		
	- C.H.Cl. and Co-r C.H.	AS South the month deriv	3.		
	9,10-diblomost reactive monomers	lers stable at up to 300-400			
	200-87°. The most reactive black powers the polymers were brown to black powers an electronic in the range of 1 having an electronic in the range of 1 polymers were readily nitrated, sulfor polymers were readily nitrated.	mated, and aminated; e.	g.,		
	polymers were readily included				
	1 1		•		
	_\ac-	a	•		
	14				
社 表 Managaran Managaran Managaran	sulfonation with furning H ₂ SO, gave	heat resistant (to 300°)	cat-		
	sulfonation with fuming H ₂ SO, gave ion exchange resins I of high exchang	e capacity.	ch.	7	
	jon exchange resting 1 of the REEL/FI	AME	7-	/	
	198211	ΔΔ			
+	198213	LTA (A.)			
6 .		en e			
#15 \$ { } { }		cae dathai			DIE ENER

PROCESSING DATE--300CT70 TITLE-RENOGRAPHY AS A METHOD OF EARLY DIAGNOSIS OF PRECLINICAL FORMS OF RENAL ANGIOPATHIES IN PATIENTS WITH DIABETES HELLITUS -U-AUTHOR-(03)-OGANESOVA, V.T., LYASHKO, K.YA., YUDIN, L.A. SOURCE-TERAPEVTICHESKIY ARKHIV, 1970, VOL 42, NR 6, PP 75-77 COUNTRY OF INFO--USSR DATE PUBLISHED ------70 SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES TOPIC TAGS-DIAGNOSTIC METHODS, DIABETES MELLITUS, KIDNEY, RADIOSOTOPE CONTROL MARKING-NO RESTRICTIONS STEP NO--UR/0504/70/042/006/0075/0077 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME-3002/1910 CLOC ACCESSION NO-AFO129259 UNCLASSIFIED

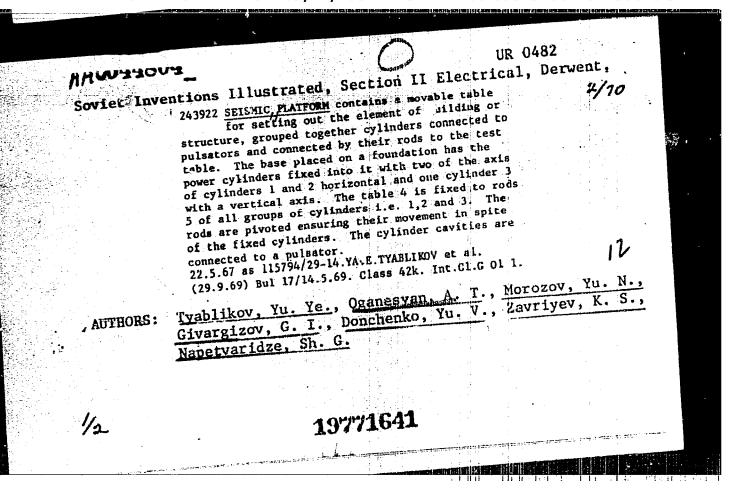
PROCESSING DATE--300CT70 UNCLASSIFIED 2/2 CIRC ACCESSION NO-APO129259 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE METHOD OF RADIOISOTOPE RENGGRAPHY WAS USED FOR INVESTIGATING PATIENTS WITH DIABETES MELLITUS TO REVEAL EARLY PRECLINICAL FORMS OF RENAL AFFECTION. A TOTAL OF 50 PATIENTS WITH DIFFERENT DEGREE OF THE DISEASE SEVERITY IMILD, MODERATE, ACUTE) INCLUDING 22 PERSONS WITHOUT ANY CLINICAL SYMPTOMS OF RENAL AFFECTION WERE EXAMINED. IT WAS ESTABLISHED THAT RENGGRAPHY IS OF DIAGNOSTIC VALUE WHEN USED IN COMBINATION WITH OTHER METHODS OF INVESTIGATION AND WHEN ACCURATELY DONE CAN BE USED FOR EARLY DIAGNOSIS OF PRECLINICAL FORMS OF RENAL AFFECTION IN DIABETES MELLITUS. FACILITY: KAFEDRA GOSPITAL NOY TERAPII I KAFEDRA RADIOLOGII I RENTGENOLOGII, I MOSKOVSKOGO MEDITSINSKOGO INSTITUTA IM. I. M. SECHENOVA.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9"

UNCLASSIFIED.

UNCLASSIFIED PRICESSING DATE--230CT70 TITLE--EXPERIMENTAL STUDY OF A DETECTOR OF ULTRAHIGH ENERGY PARTICLES AUTHOR-(04)-ALIKHANYAN, A.I., ISPIRYAN, K.A., OGANESYAN, A.G., TAMANYAN, COUNTRY OF INFO--USSR SOURCE--PIS MA ZH. EKSP. TEOR. FIZ. 1970; ELETT. 347-9 DATE PUBLISHED ----- 70 TOPIC TAGS--TRANSITION RADIATION, GAMMA DETECTOR, HIGH ENERGY PARTICLE, SUBJECT AREAS--PHYSICS CHARGED PARTICLE CONTROL MARKING--NO RESTRICTIONS STEP NO--UR/0386/T0/011/007/0347/0349 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3001/2208 CIRC ACCESSION NO--APO127570 UNCLASSIFIED

PROCESSING DATE--230CT70 **UNCLASSIFIED** 2/2 CIRC ACCESSION NO--AP0127570 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE PROBLEM OF SEPG. PARTICLES FROM T E TRANSITION RADIATION WAS SOLVED. A GAMMA DETECTOR OF TORIDAL FORM WAS USED. CHARGED PARTICLES PASSED THROUGH A CENTRAL OPENING OF THE DETECTOR AND THE PART RADIATION PASSING THROUGH THE OPENING SIMULTANEOUSLY WITH THE PARTICLES WAS NOT REGISTERED. THIS DETECTOR WAS EXAMD. BY E OF 0.4-4 GEV. THE DEVICE WAS ADJUSTED BY A LASER. THE RADIATION WAS REGISTERED IN THE REGION OF HW IS GREATER THAN OR EQUAL TO 15 KEY FREQUENCIES. THE EFFICIENCY (EPSILON) OF E REGISTRATION IS SHARPLY DEPENDENT ON THE E ENERGY; UNDER THE CONDITIONS USED, EPSILON WAS SIMILAR TO 0.1. BY USING DETECTORS WHICH CAN RECORD GAMMA QUANTA OF LOWER ENERGIES, THE HIGH ENERGY PARTICLES CAN BE REGISTERED WITH EPSILON SIMILAR TO 1. THE DETECTOR CAN BE USED FOR IDENTIFYING PARTICLES OF DIFFERENT MASSES WITH A HIGH RESOLM. POWER IN THE REGION OF GREATER THAN OR EQUAL TO GEV PULSES. UNCLASSIFIED



"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230010-9

